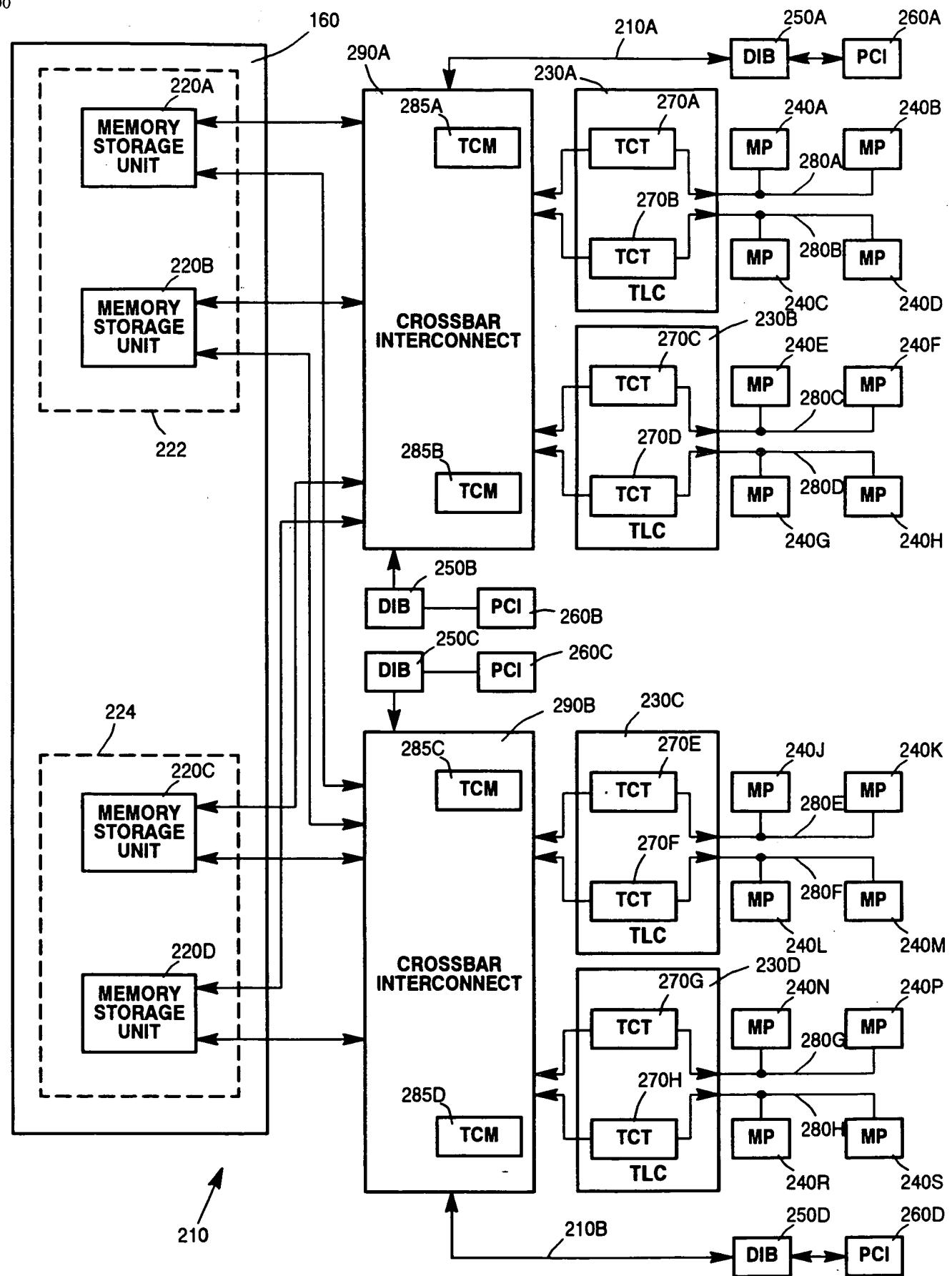
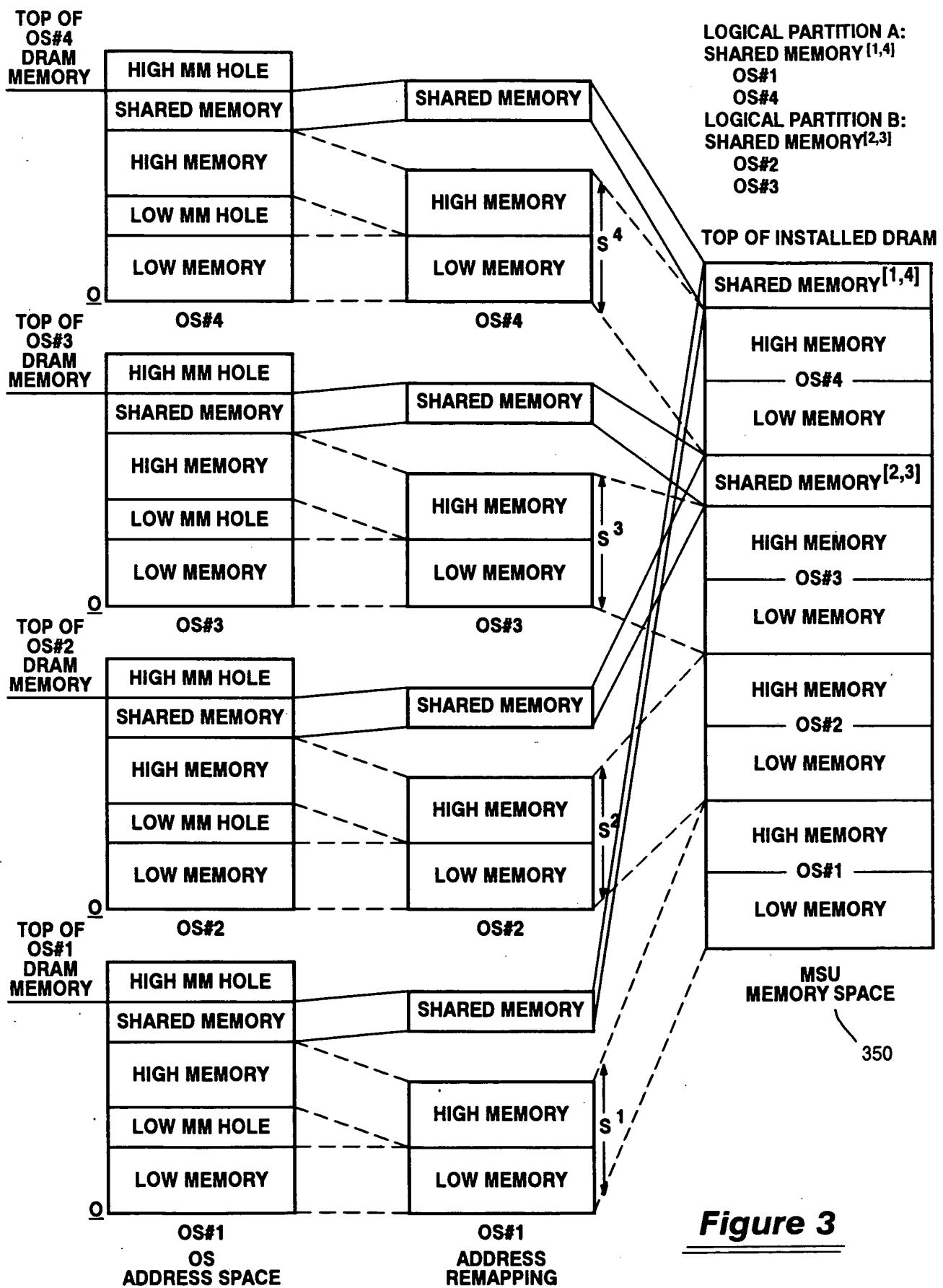


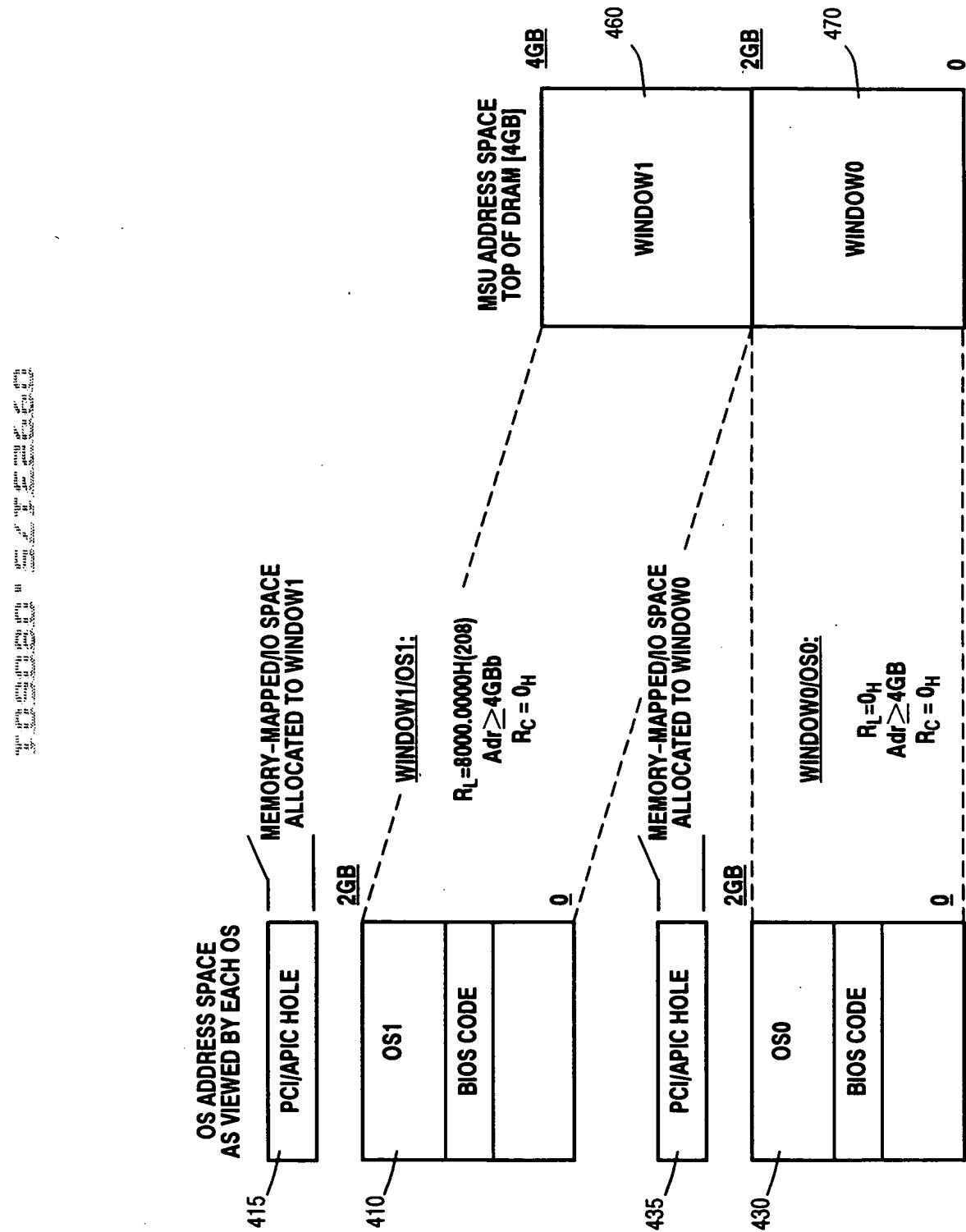
**Figure 1**



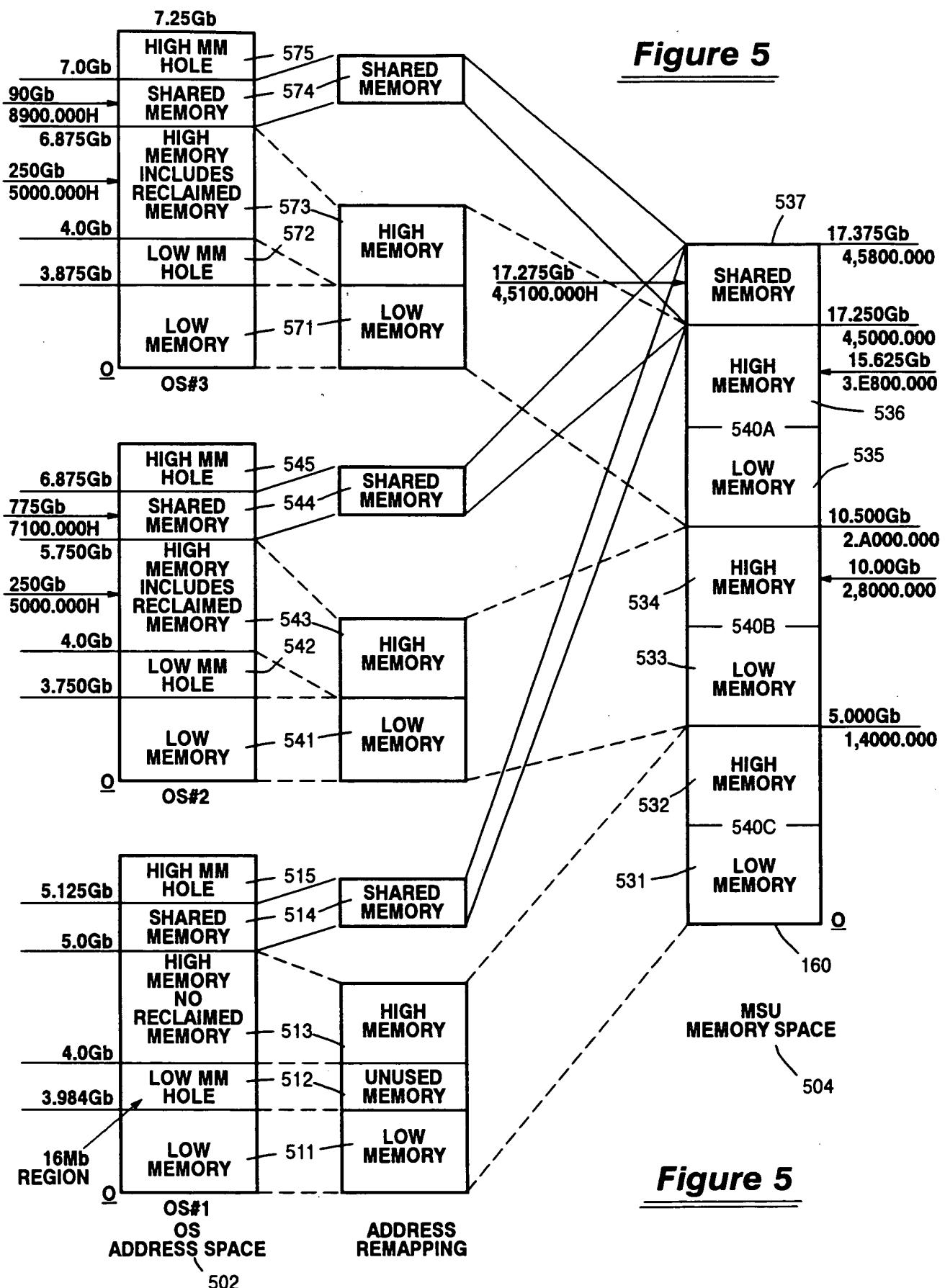
**Figure 2**



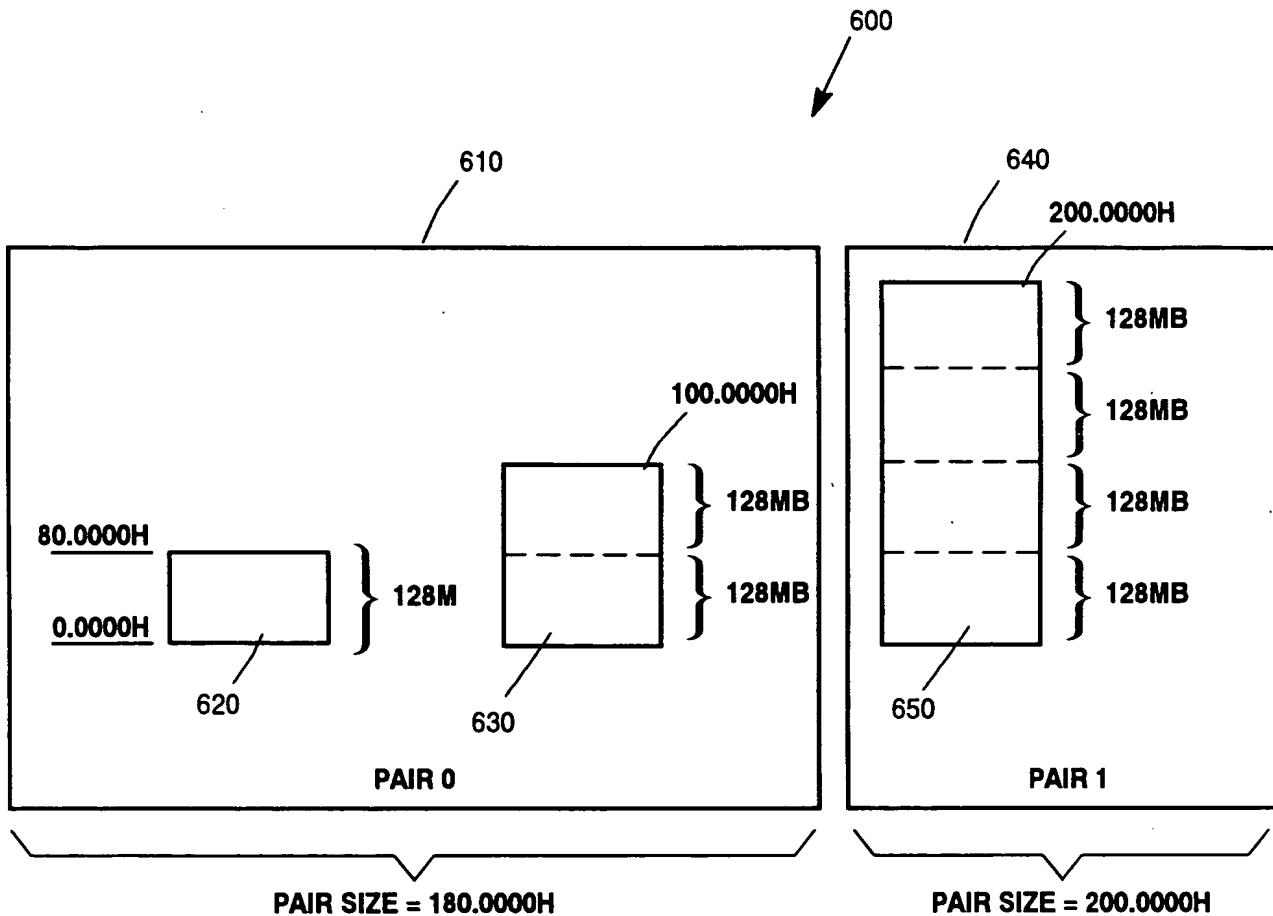
**Figure 3**



**Figure 4**

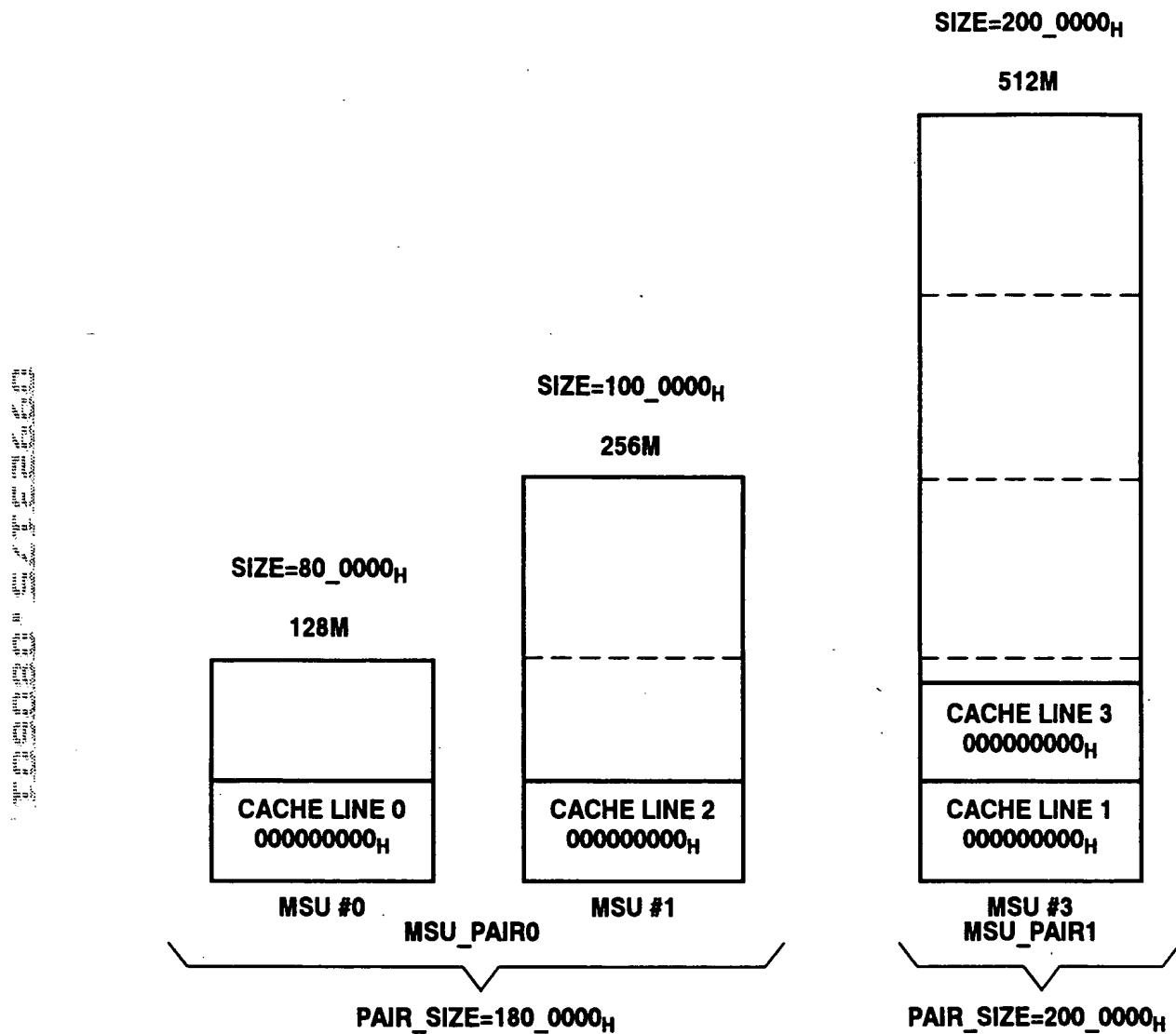


**Figure 5**

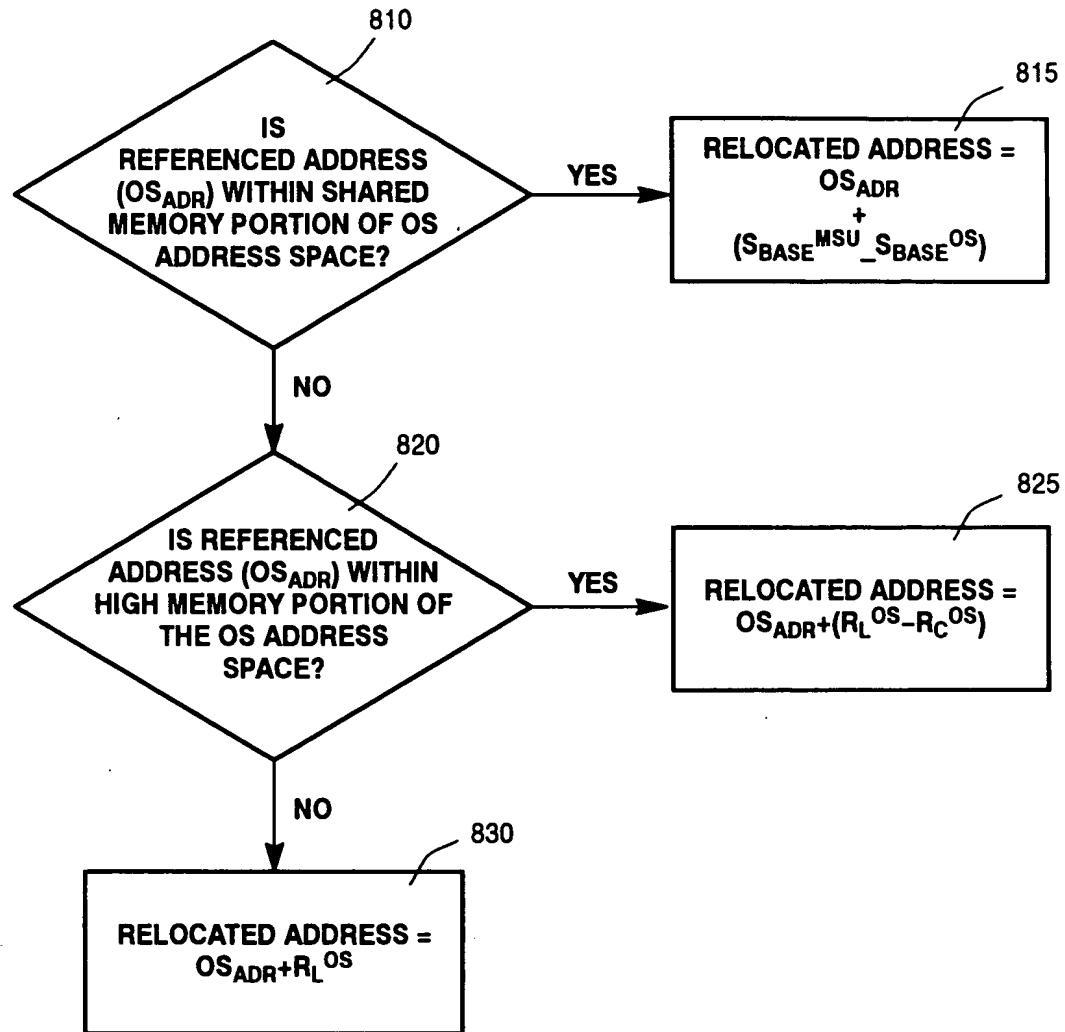


**Figure 6**

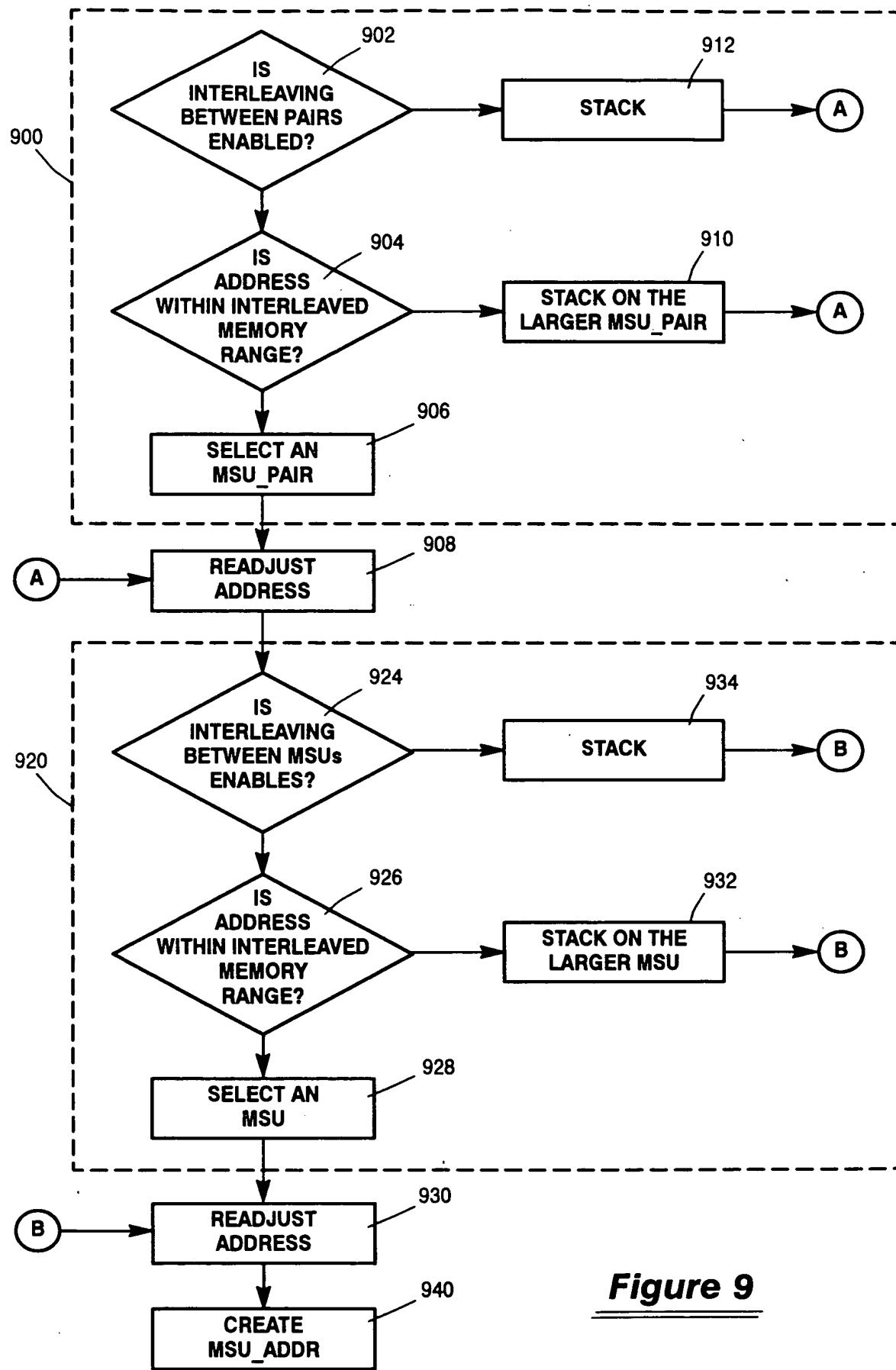
USYS-0094 "System and Method for Emulating Network Communications between Partitions of a Computer System"  
S.B.Samuels-Woodcock Washburn et al.  
215-568-3100



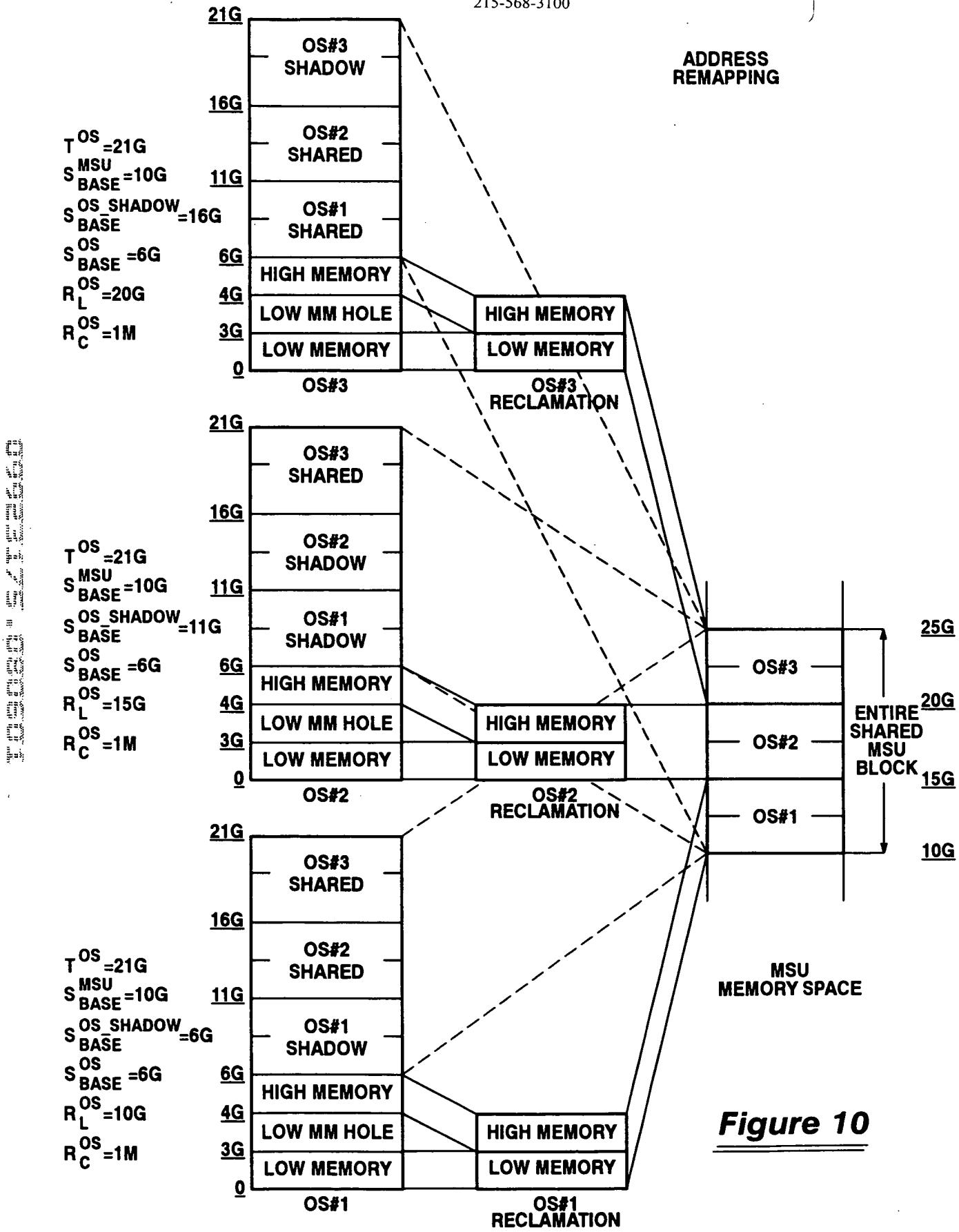
**Figure 7**



**Figure 8**



**Figure 9**



**Figure 10**

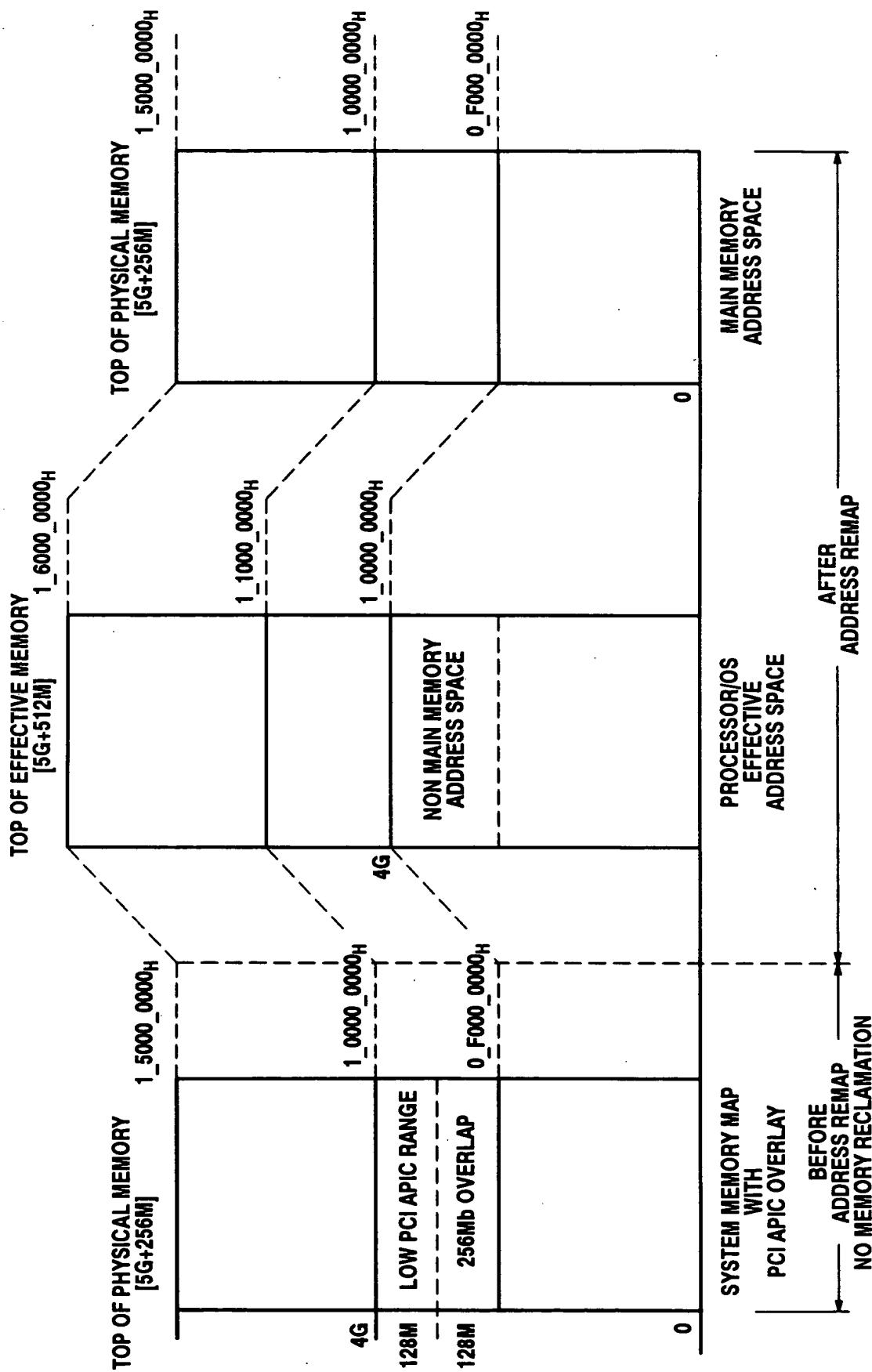
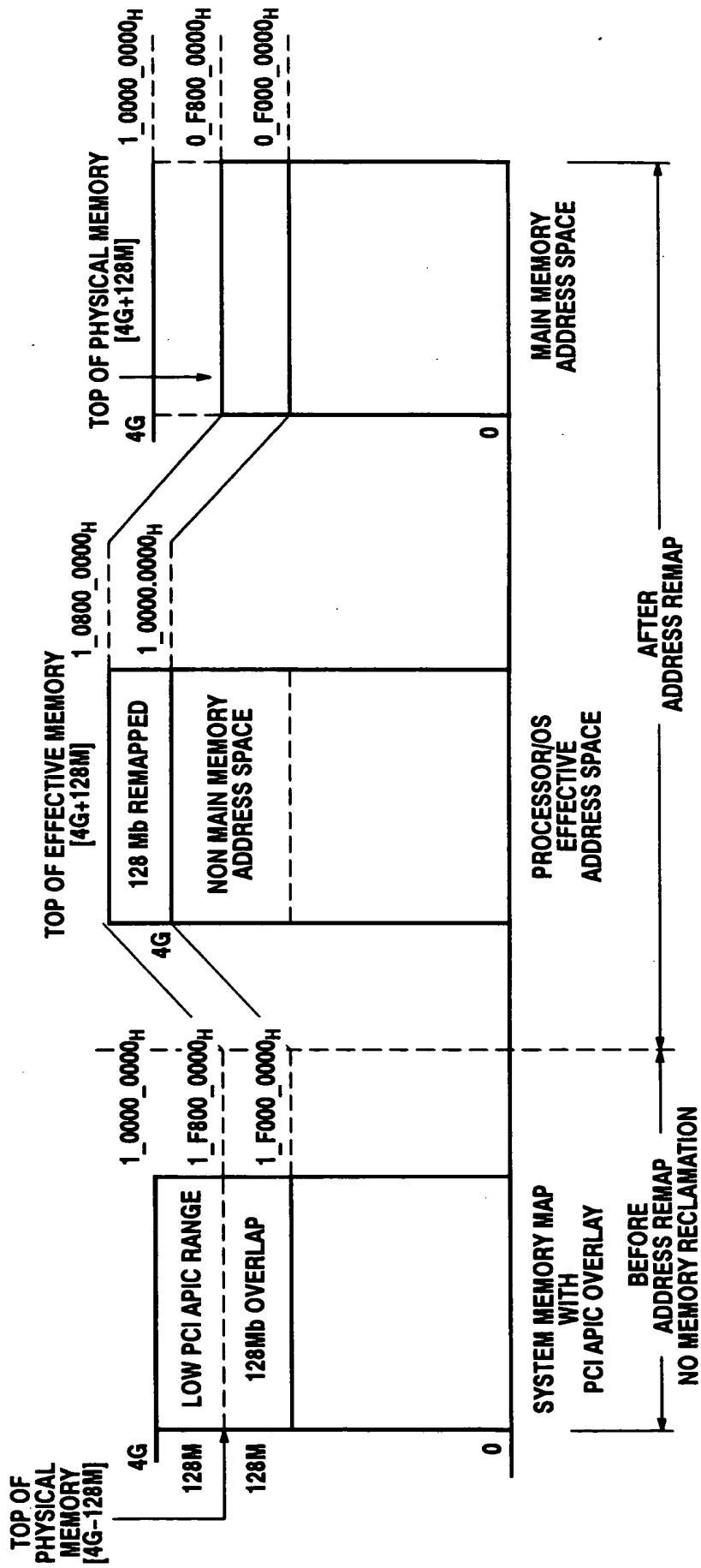
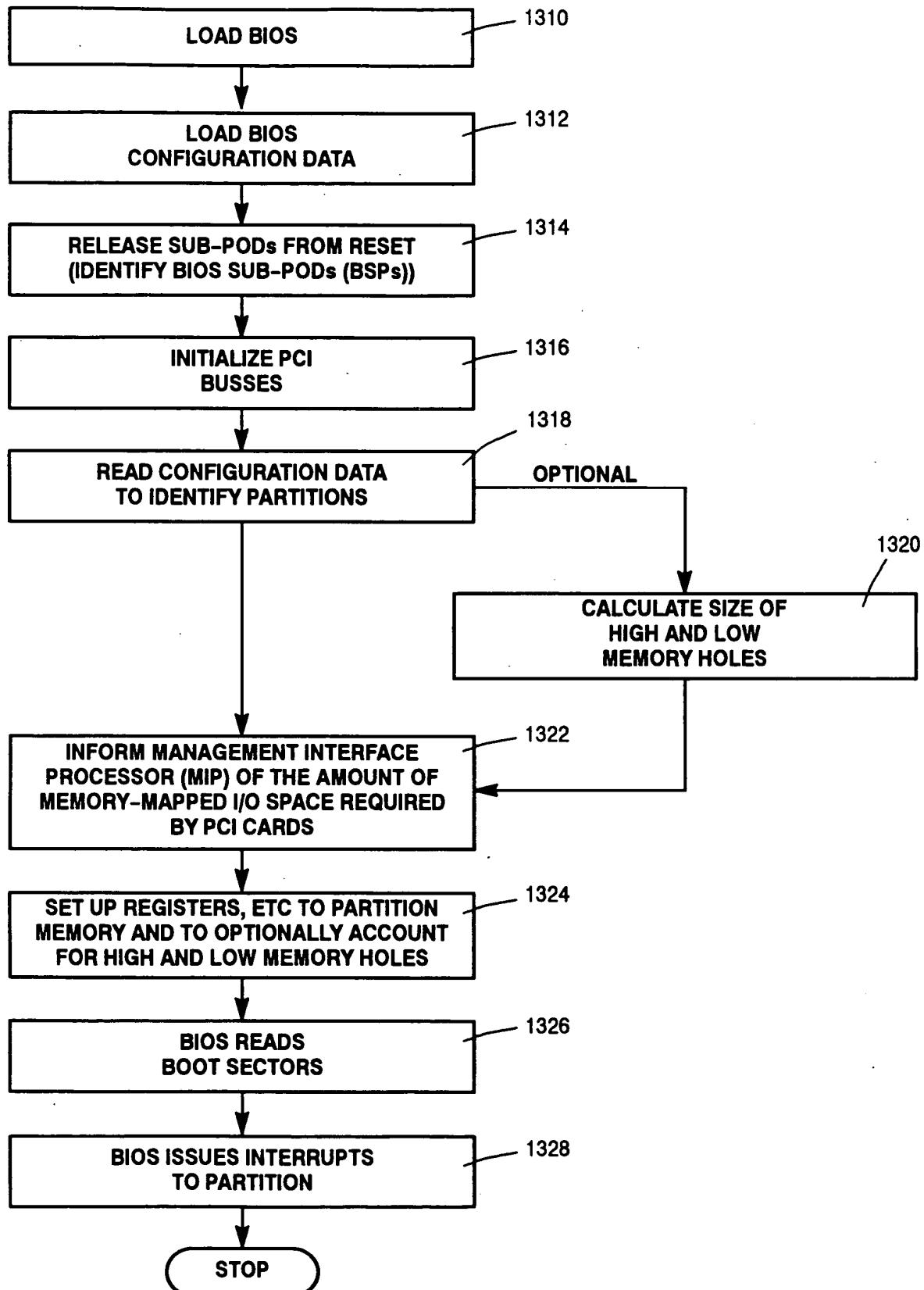


Figure 11

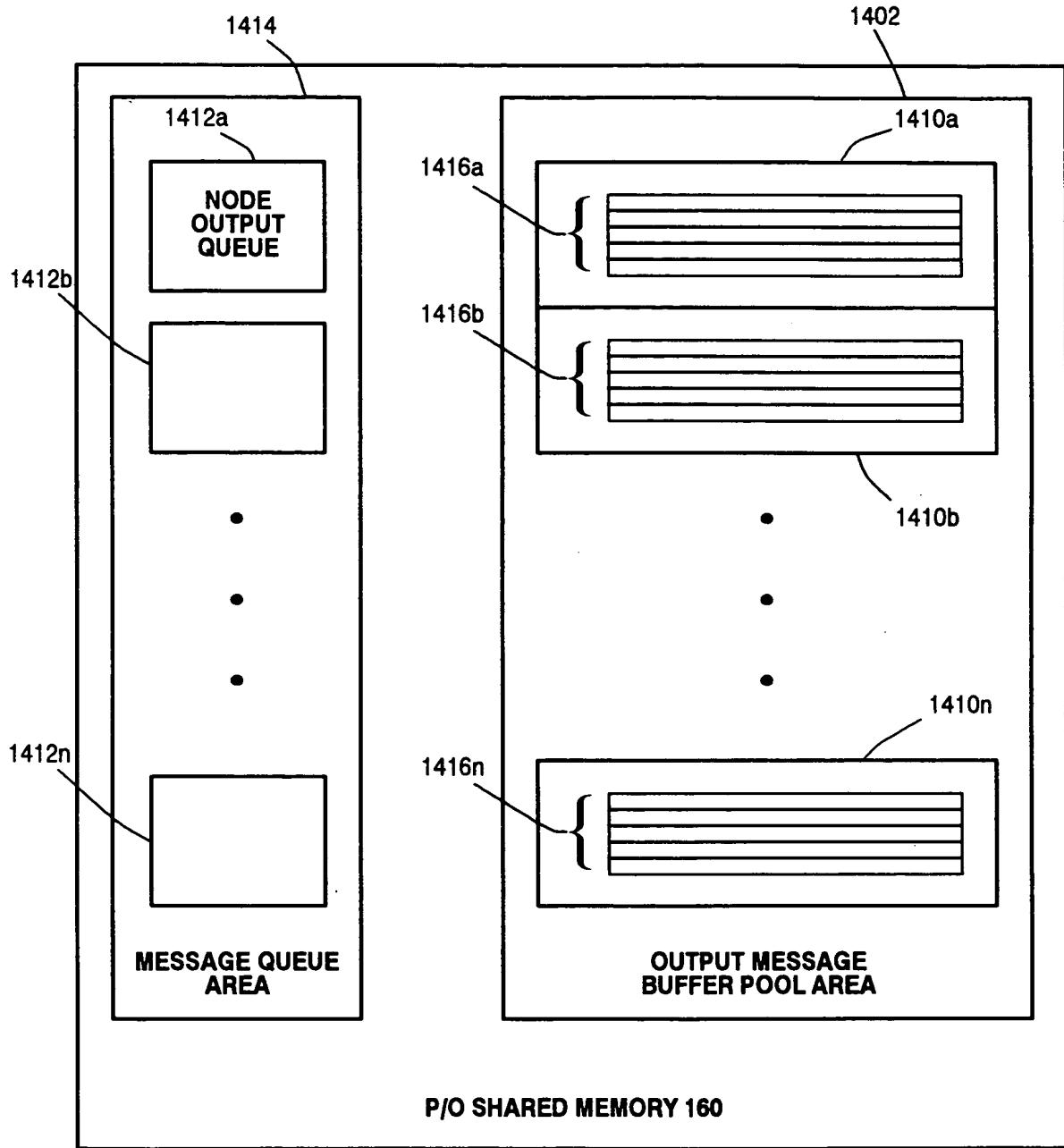


**Figure 12**

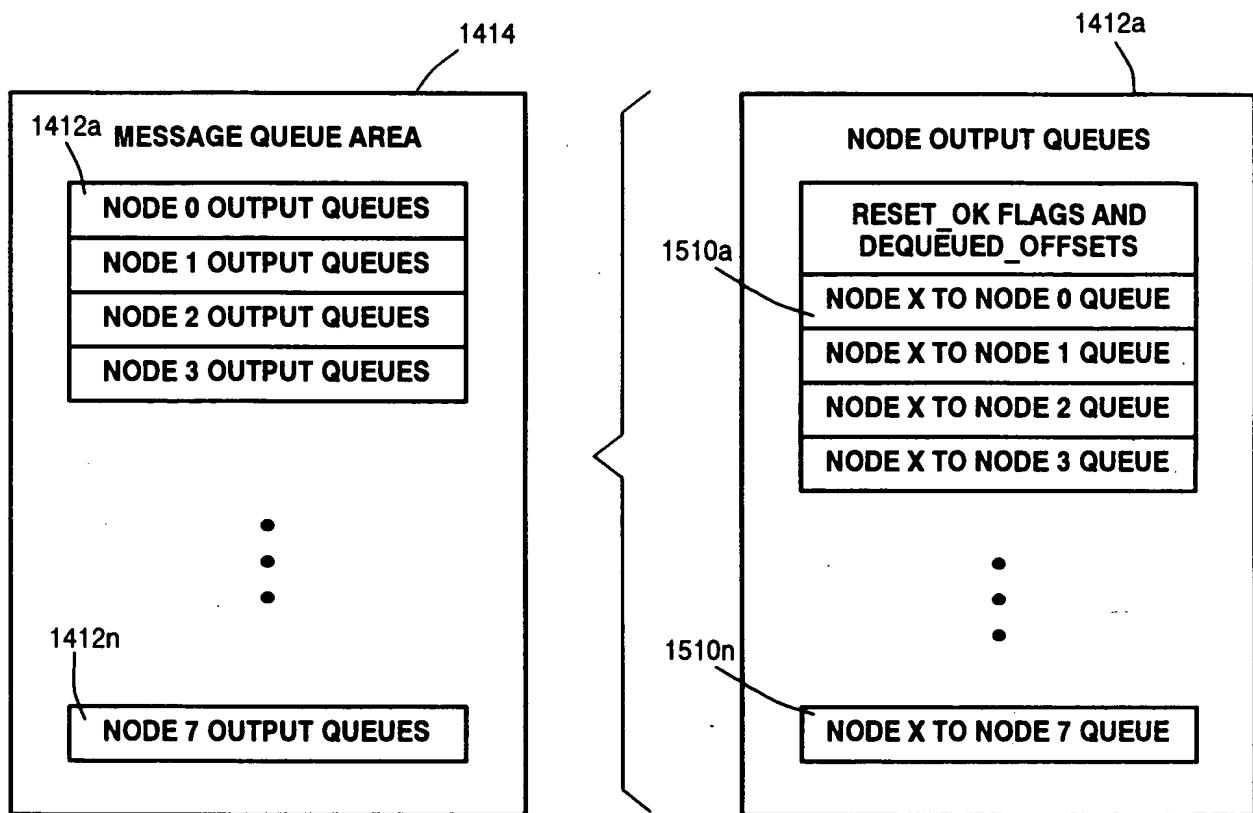


**Figure 13**

USYS-0094 "System and Method for Emulating Network Communications between Partitions of a Computer System"  
S.B.Samuels-Woodcock Washburn et al.  
215-568-3100



**Figure 14**



**Figure 15**

1412

A MORE DETAILED LOOK AT THE DEQUEUED\_OFFSETS  
AND THE MESSAGE QUEUES IS SHOWN BELOW:

	0	31	32 63				
0	RESERVED	NODE OS ID (EXAMPLES FOLLOW)					1610
		2 X	2 N	S C I T	O M U N		1612
1-2	RESERVED	NODE MAC ADDRESS (12 HEX DIGITS WITH 2 DIGITS PER BYTE)					
3-7	RESERVED	RESERVED					
0	RESERVED	32 RESET_OK	39 RESERVED	40 RESERVED	47 RESERVED	48 63 DEQUEUED_OFFSET FOR NODE 0	
1	RESERVED	RESET_OK	RESERVED	RESERVED	RESERVED	DEQUEUED_OFFSET FOR NODE 0	
2	RESERVED	RESET_OK	RESERVED	RESERVED	RESERVED	DEQUEUED_OFFSET FOR NODE 0	
				• • •			
7	RESERVED	RESET_OK	RESERVED	RESERVED	RESERVED	DEQUEUED_OFFSET FOR NODE 0	
START OF OUTPUT QUEUE TO NODE 0							
0	RESERVED	NEED_RESET	RESERVED	RESERVED	RESERVED	ENQUEUED_OFFSET FOR NODE 0	P/O NODE-NODE QUEUE 1510a

Figure 16A

1	RESERVED	MESSAGE BUFFER OFFSET		
2	RESERVED	MESSAGE BUFFER OFFSET		
		• • •		
511	RESERVED	MESSAGE BUFFER OFFSET		
START OF OUTPUT QUEUE TO NODE 1				
0	RESERVED	NEED_RESET	RESERVED	ENQUEUED OFFSET FOR NODE 1
1	RESERVED	MESSAGE BUFFER OFFSET		
2	RESERVED	MESSAGE BUFFER OFFSET		
		• • •		
511	RESERVED	MESSAGE BUFFER OFFSET		
		• • •		
START OF OUTPUT QUEUE TO NODE 7				
0	RESERVED	NEED_RESET	RESERVED	ENQUEUED OFFSET FOR NODE 7
1	RESERVED	MESSAGE BUFFER OFFSET		
2	RESERVED	MESSAGE BUFFER OFFSET		
		• • •		
511	RESERVED	MESSAGE BUFFER OFFSET		

P/O  
NODE-  
TO-NODE  
QUEUE  
1510a

1510

1510n

NODE\_OS\_ID IS A 4 CHARACTER STRING WITH ONE OF THE FOLLOWING VALUES:

- 'OS22' - OS2200 ARCHITECTURE
- 'MCP' - A-SERIES ARCHITECTURE
- 'UNIX' - INTEL ARCHITECTURE WITH A UNIX OPERATING SYSTEM
- 'NT' - INTEL ARCHITECTURE WITH MICROSOFT WINDOWS NT OPERATING SYSTEM

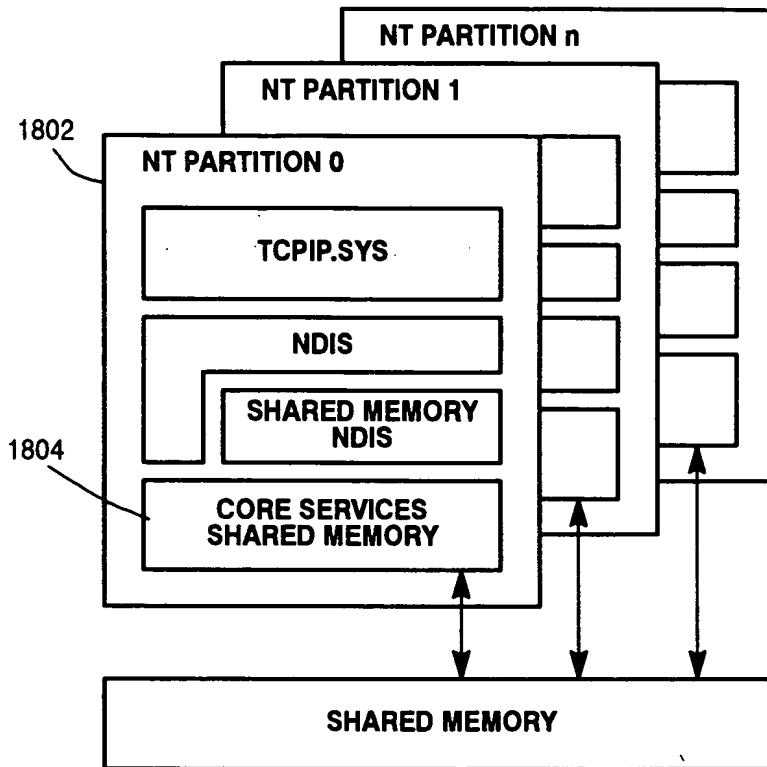
**Figure 16B**

1416

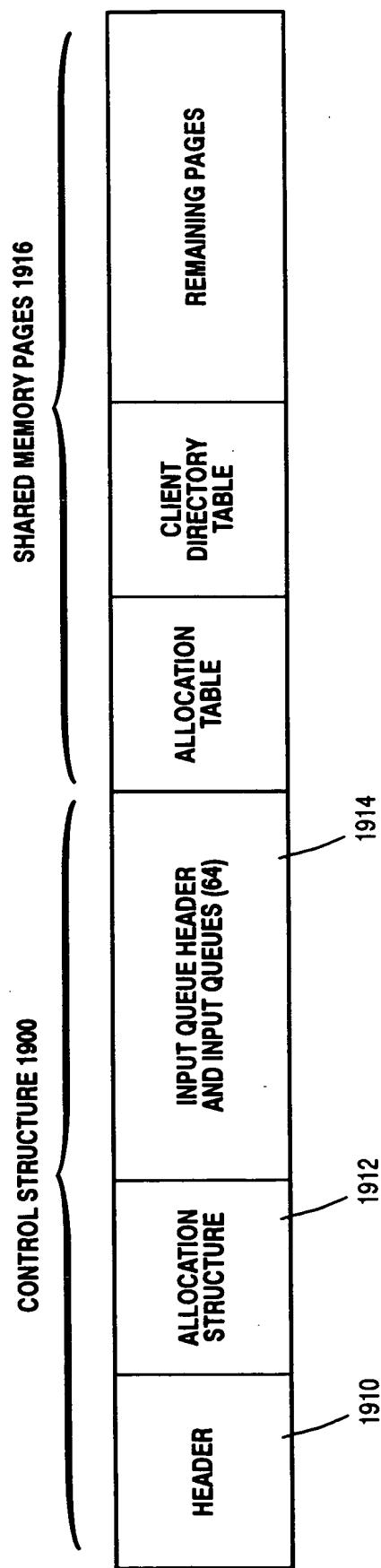
0	0	RESERVED	31	32	WORD LENGTH OF BUFFER		63		
1		RESERVED		WORD LENGTH OF HEADER					
2		RESERVED		32	47	48	63		
3		RESERVED		BYTE SKIP COUNT		BYTE TRANSFER COUNT			
n		RESERVED		BYTE SKIP COUNT		BYTE TRANSFER COUNT			
m		RESERVED		MESSAGE					
		RESERVED							
		RESERVED							
		RESERVED							
		RESERVED							
b-1		RESERVED		MESSAGE					

**Figure 17**

1802  
1804



**Figure 18**



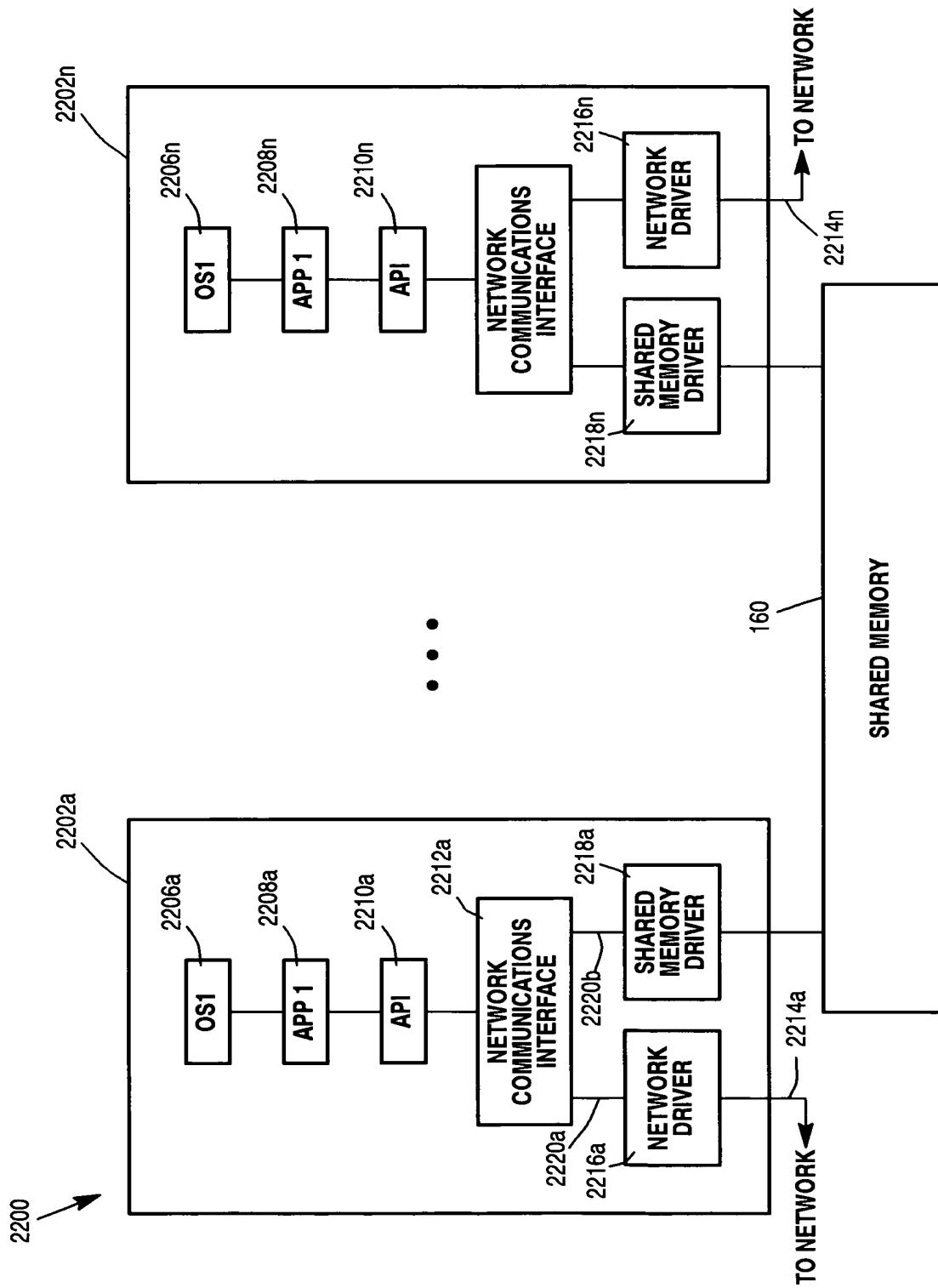
**Figure 19**

<b>CONTROL STRUCTURE HEADER CONTENTS</b>
<b>VERSION ID</b>
<b>SHARED MEMORY STATUS</b>
<b>PARTITION ID OF "MASTER PARTITION"</b>
<b>SHARED MEMORY PARTITION CHECK IN INTERVAL</b>
<b>CLIENT DIRECTORY TABLE HEADER</b>
<b>PARTITION INFORMATION (10 WORDS PER PARTITION)</b>

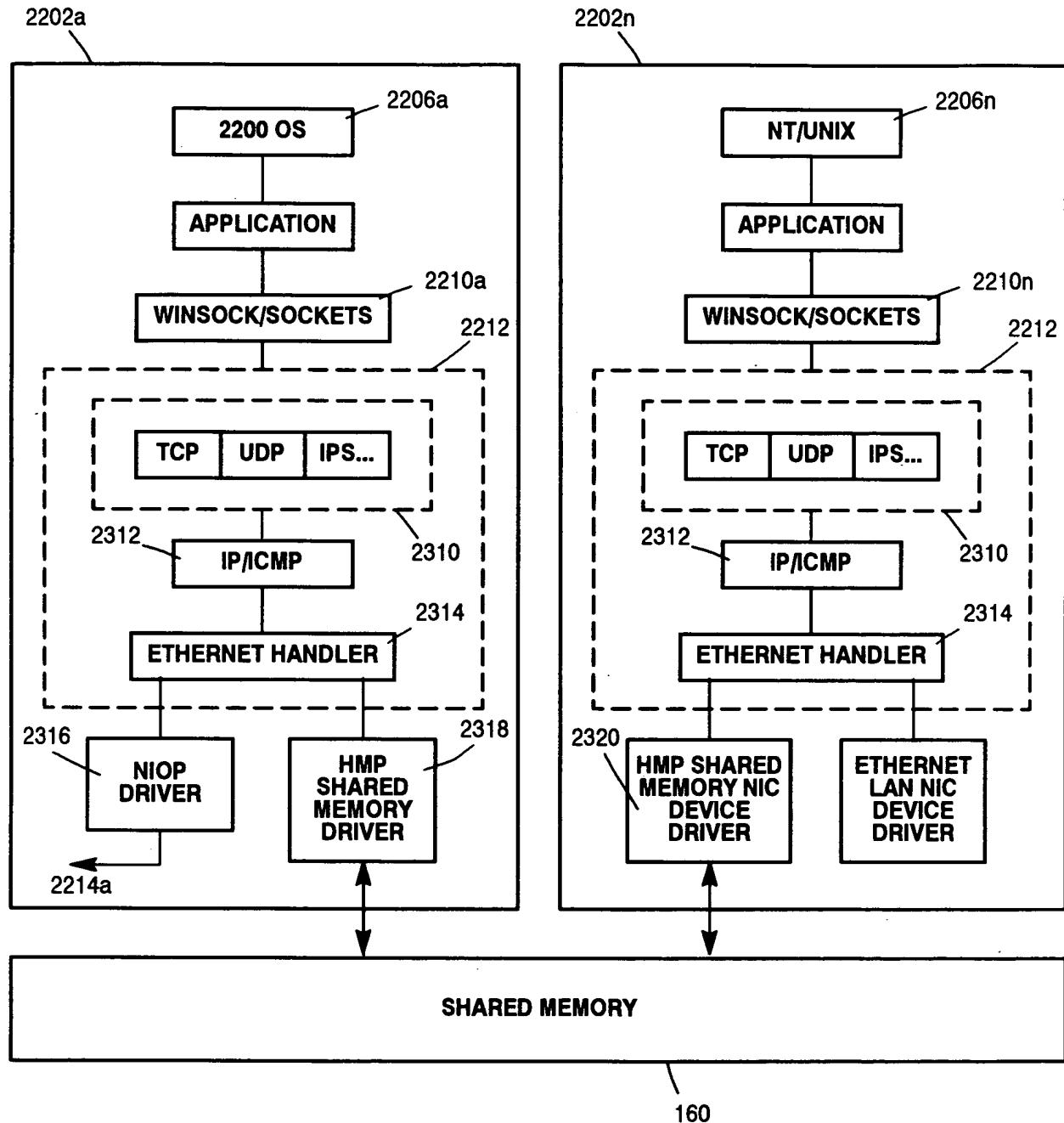
***Figure 20***

<b>ALLOCATION STRUCTURE CONTENTS</b>
<b>ALLOCATION LOCK</b>
<b>LENGTH OF SHARED MEMORY AREA (IN 4K BYTES PAGES)</b>
<b>SHARED MEMORY PAGE POINTER</b>
<b>FREE PAGE LIST HEAD</b>
<b>ALLOCATION TABLE HEADER</b>

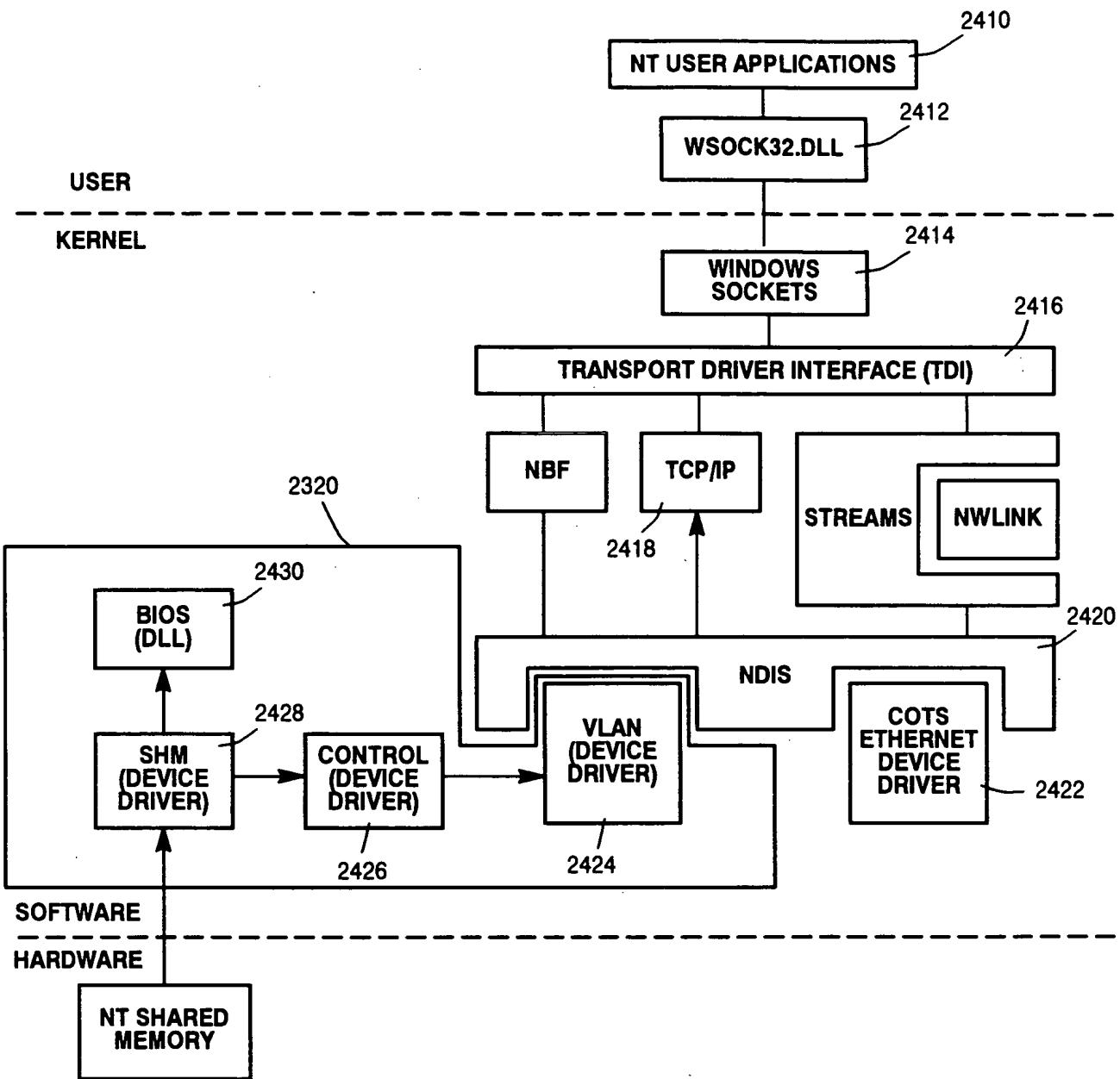
***Figure 21***



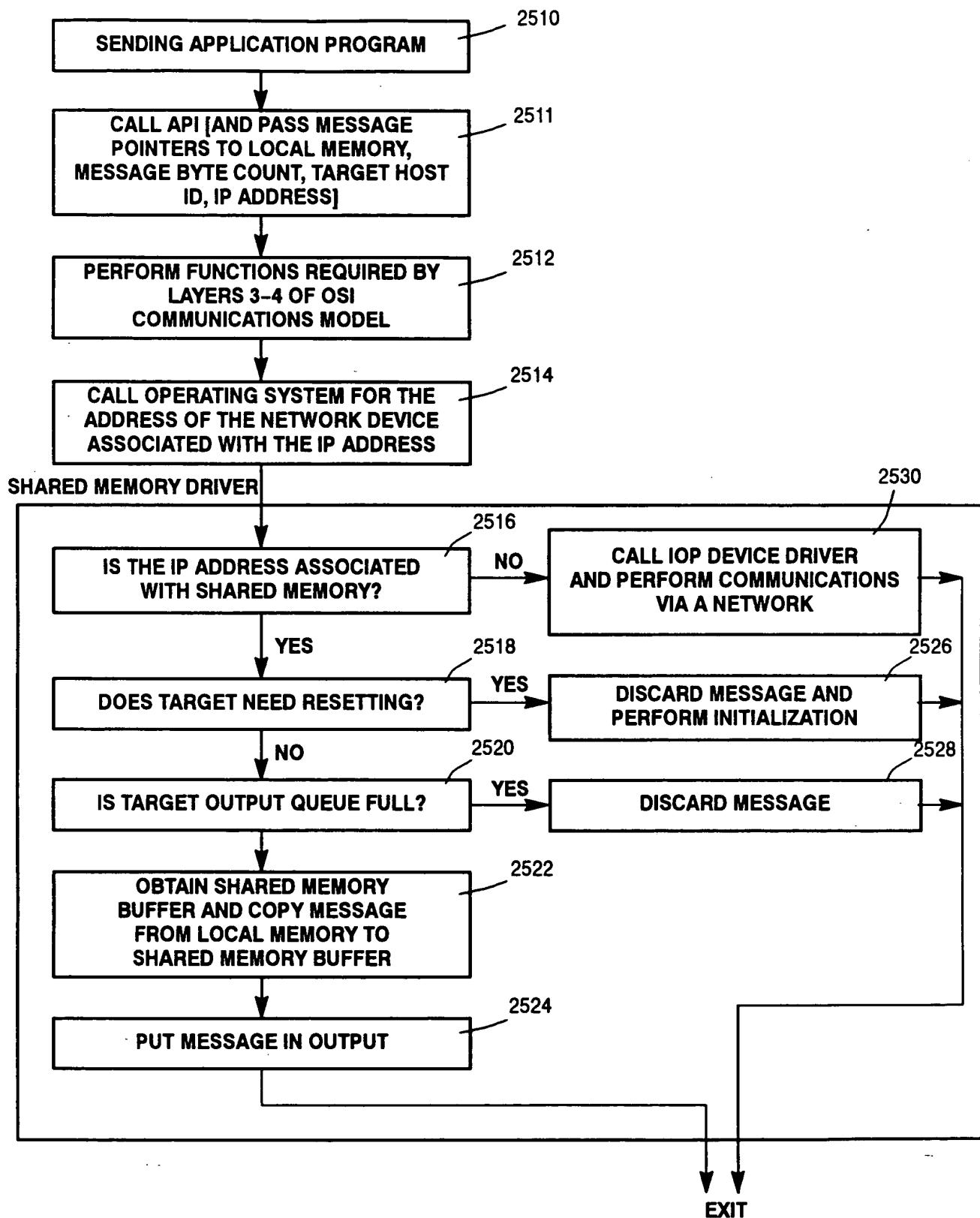
**Figure 22**



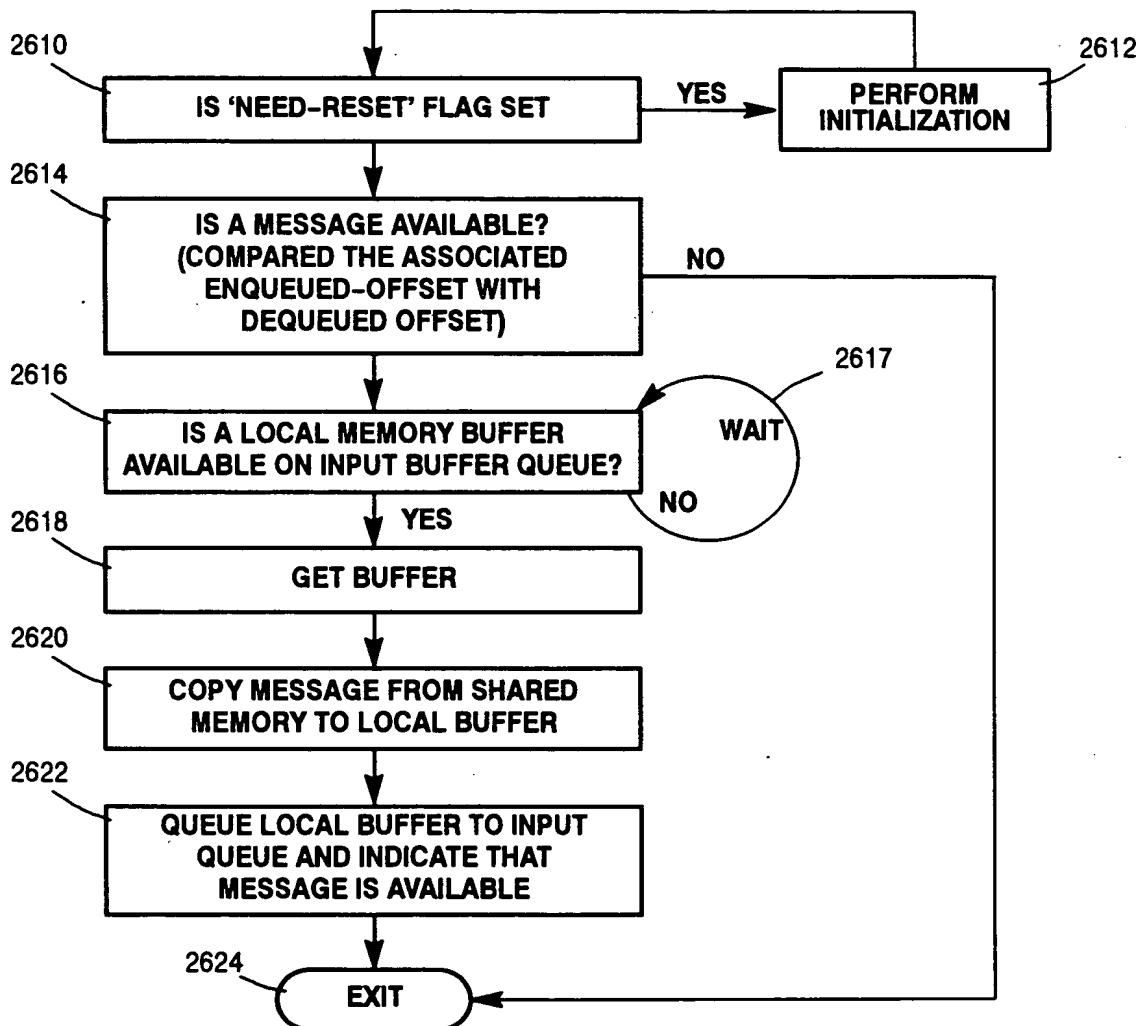
**Figure 23**



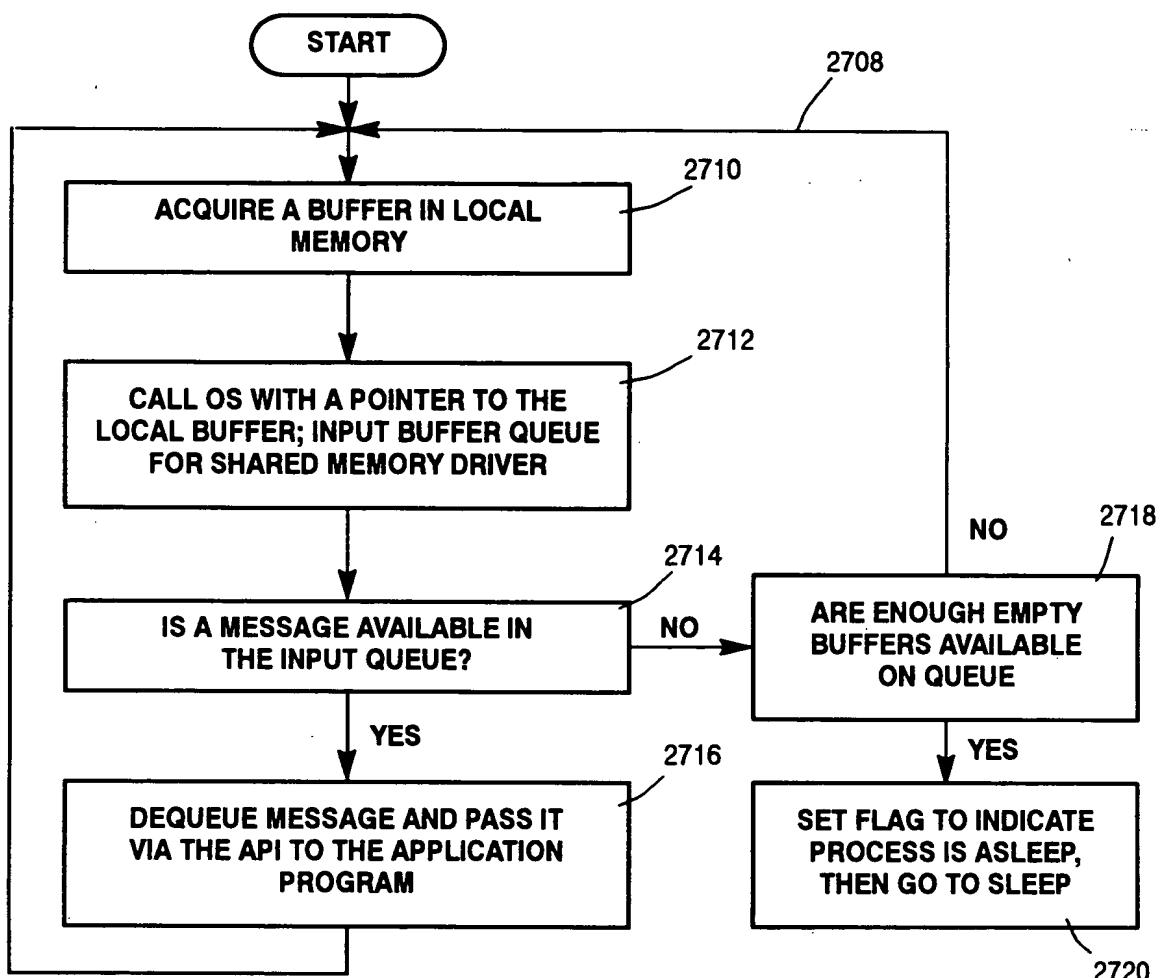
**Figure 24**



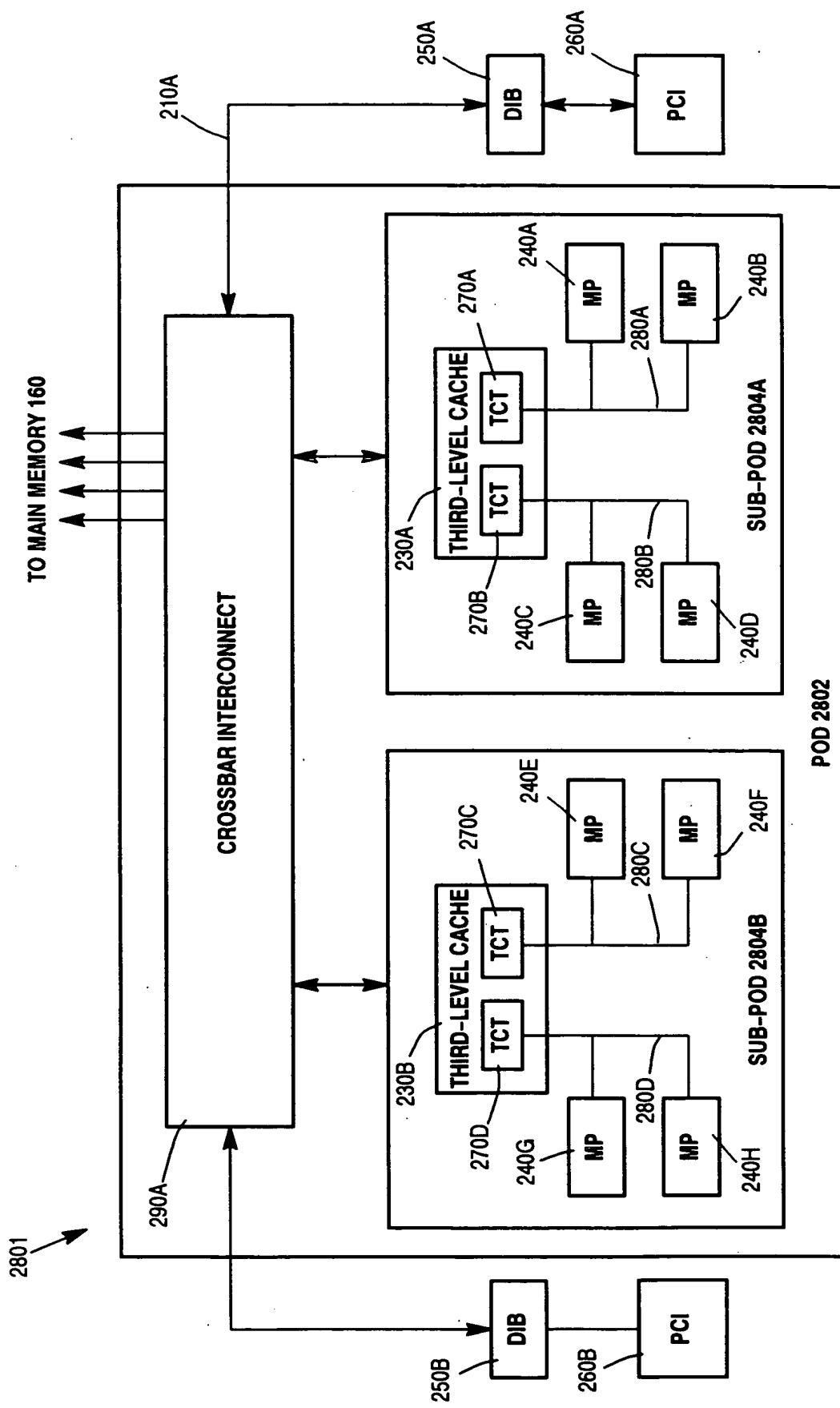
**Figure 25**



**Figure 26**



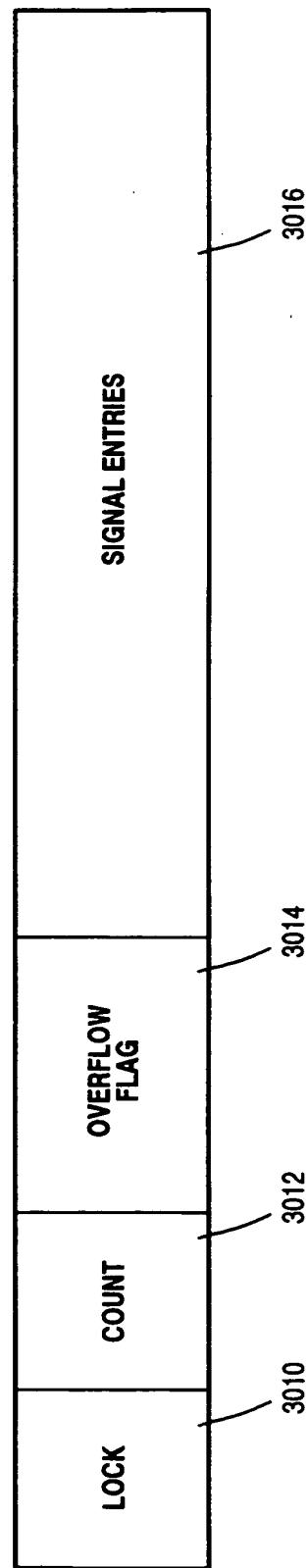
**Figure 27**



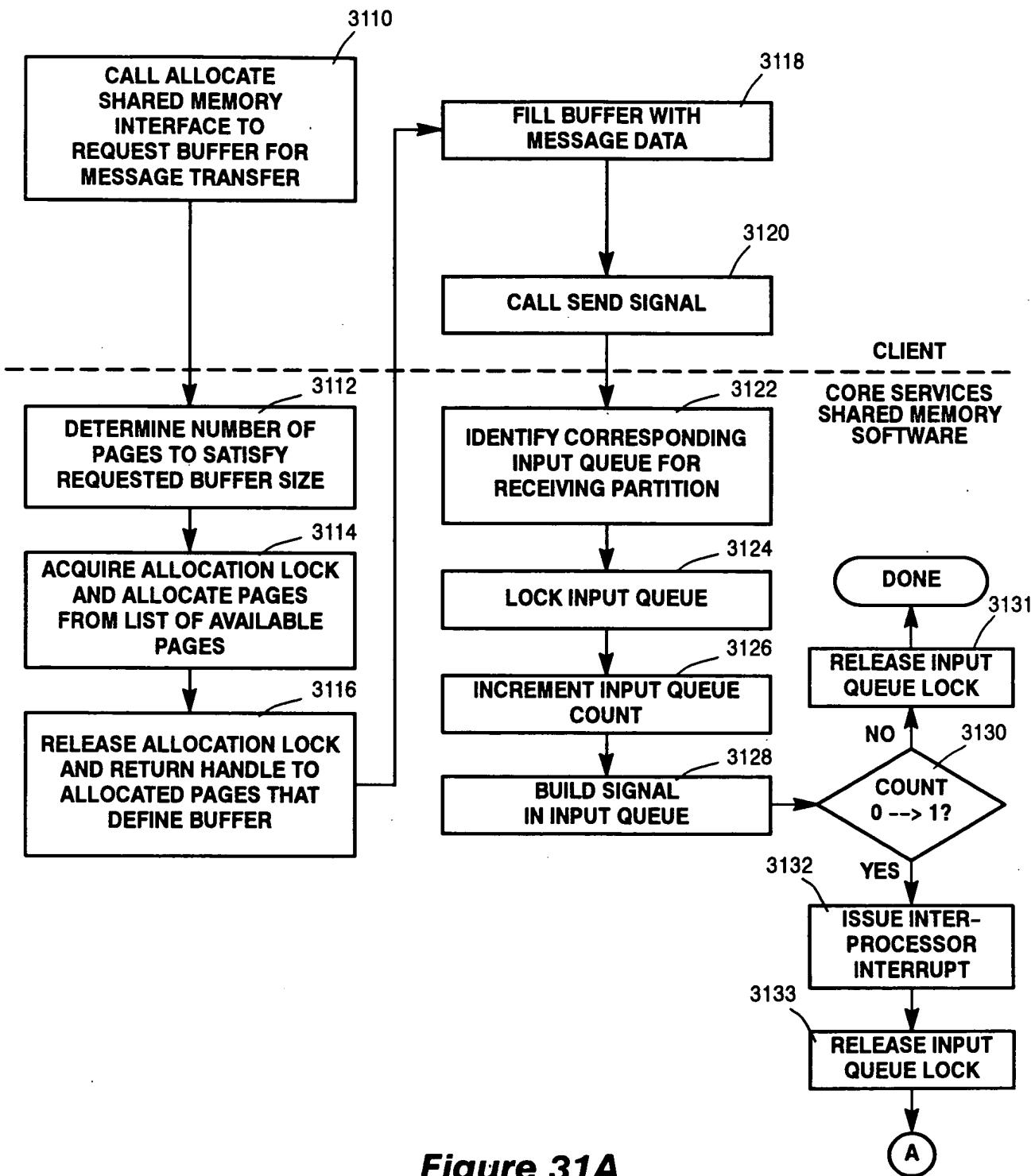
**Figure 28**

<b>INPUT QUEUE HEADER CONTENTS</b>
<b>INPUT QUEUES POINTER</b>
<b>NUMBER OF INPUT QUEUES</b>
<b>INPUT QUEUE LENGTH</b>
<b>INPUT QUEUE SIGNAL SIZE</b>
<b>MAX NUMBER OF SIGNALS IN INPUT QUEUE</b>

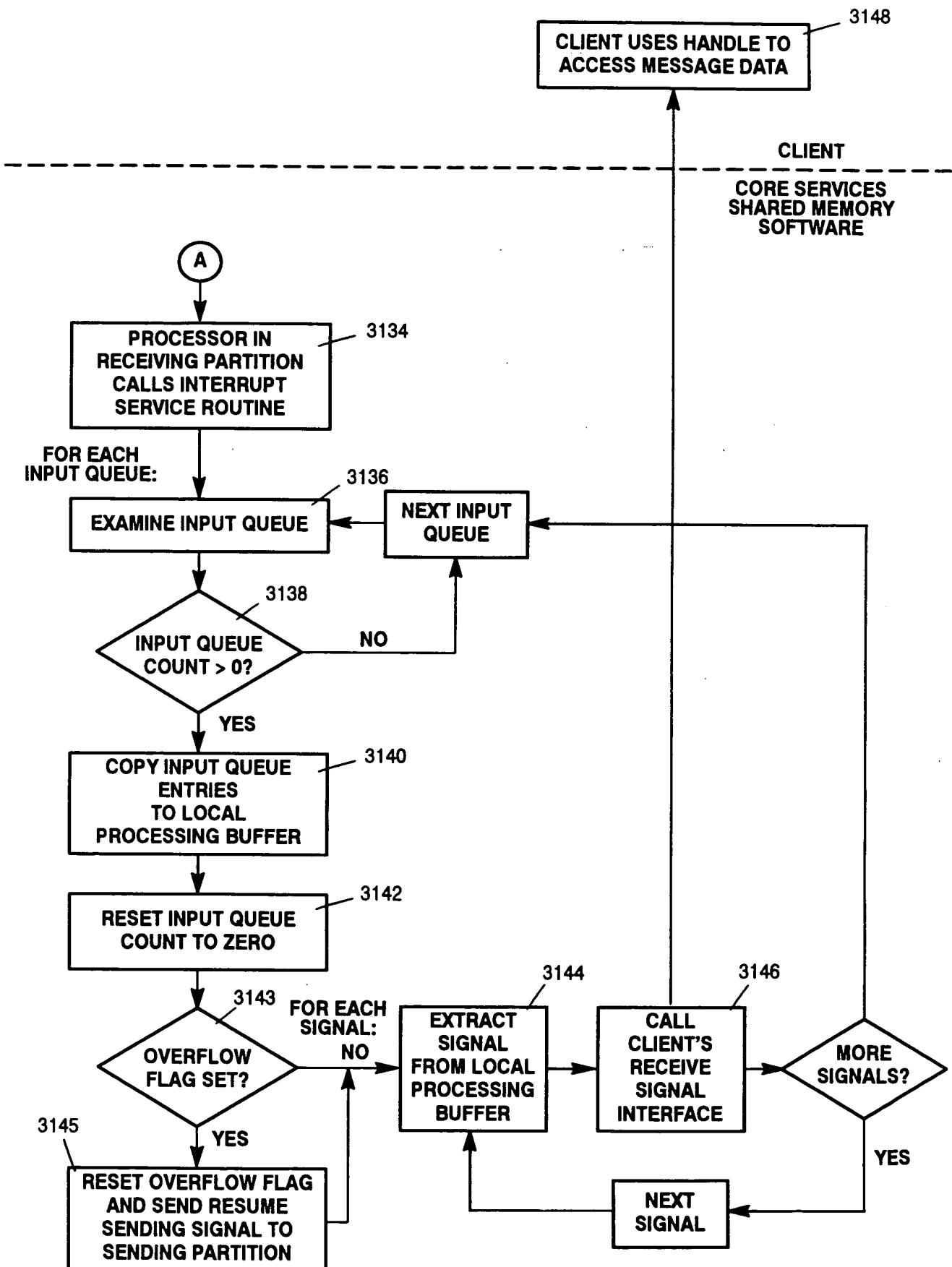
**Figure 29**



**Figure 30**



**Figure 31A**



**Figure 31B**

PARTITION OWNERSHIP MASK	CLIENT GROUP ID	DEALLOCATION LOCK
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**Figure 32A**

PARTITION OWNERSHIP MASK	CLIENT GROUP ID	DEALLOCATION LOCK	TYPE 3 PAGE COUNT	TYPE 3 PAGE REFERENCE
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**Figure 32B**

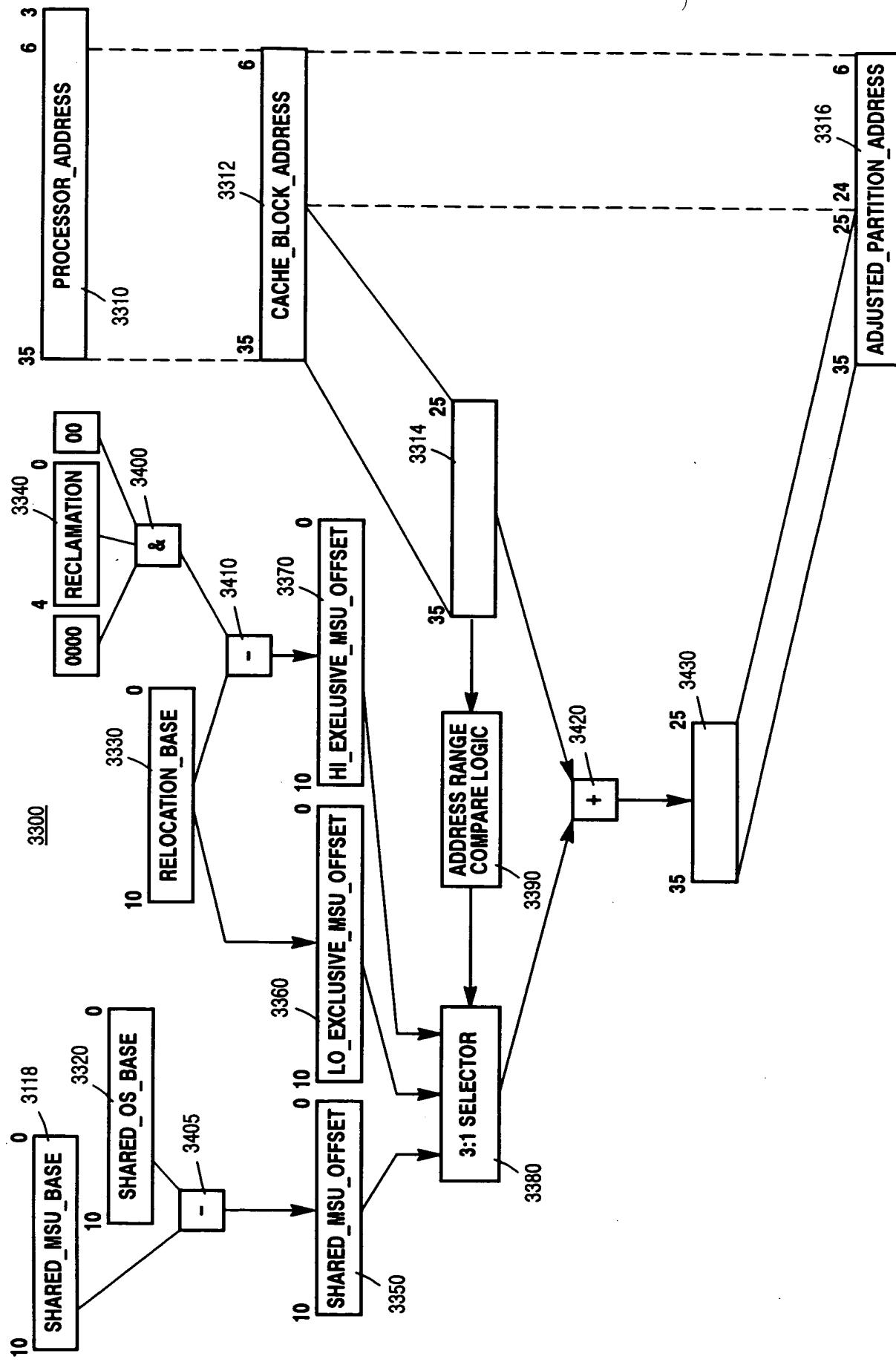


Figure 33

## PARTITION 1

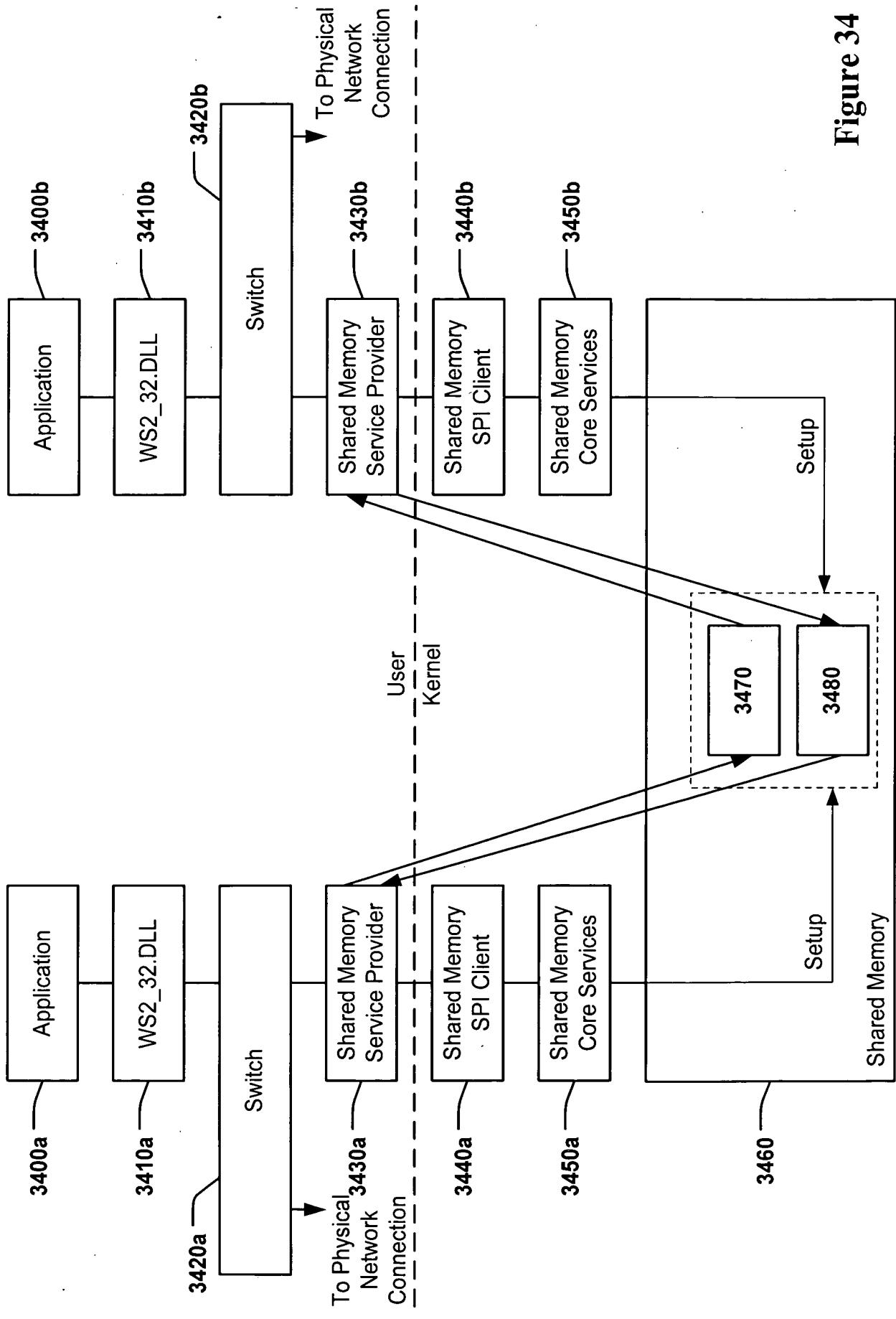


Figure 34

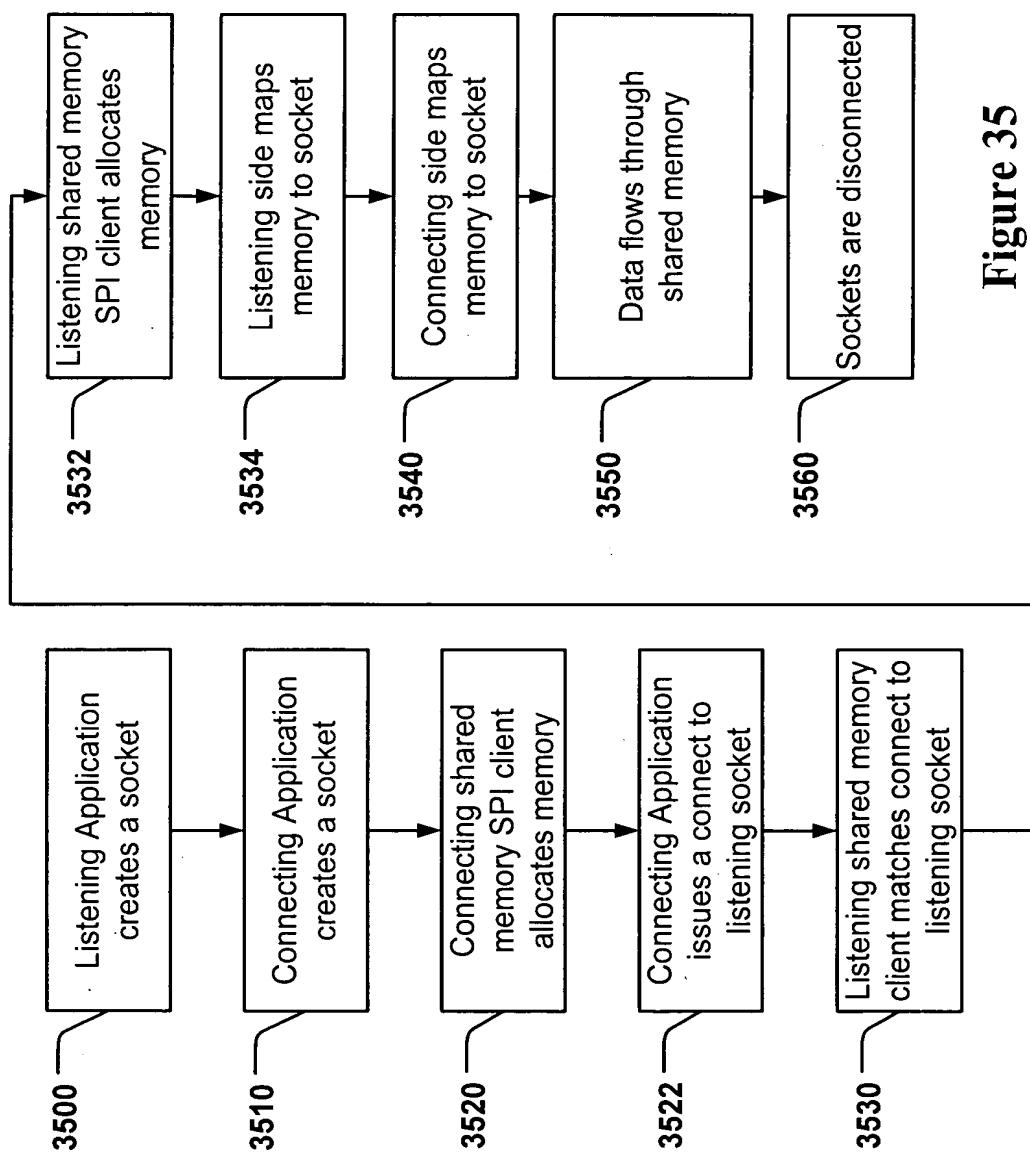


Figure 35

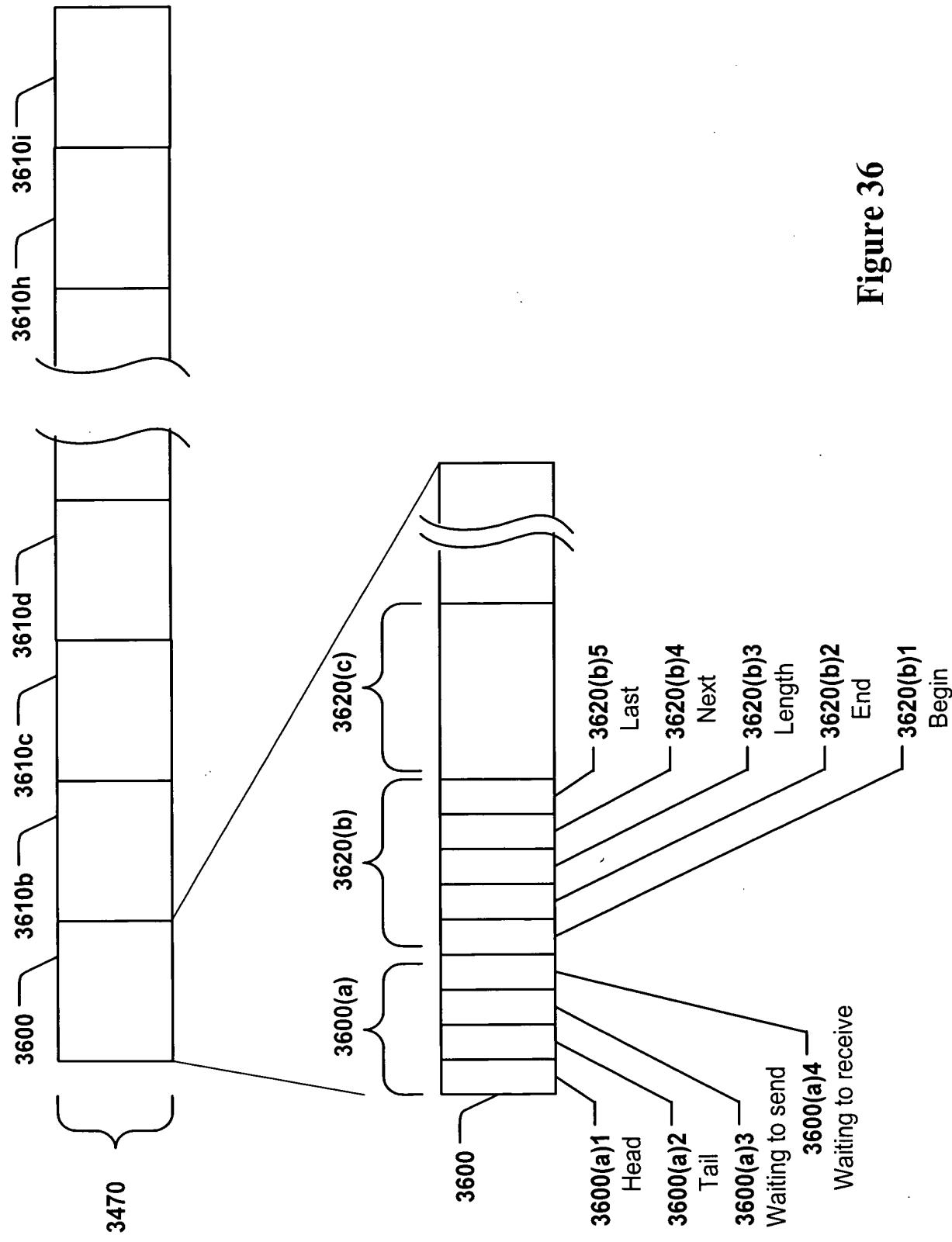


Figure 36

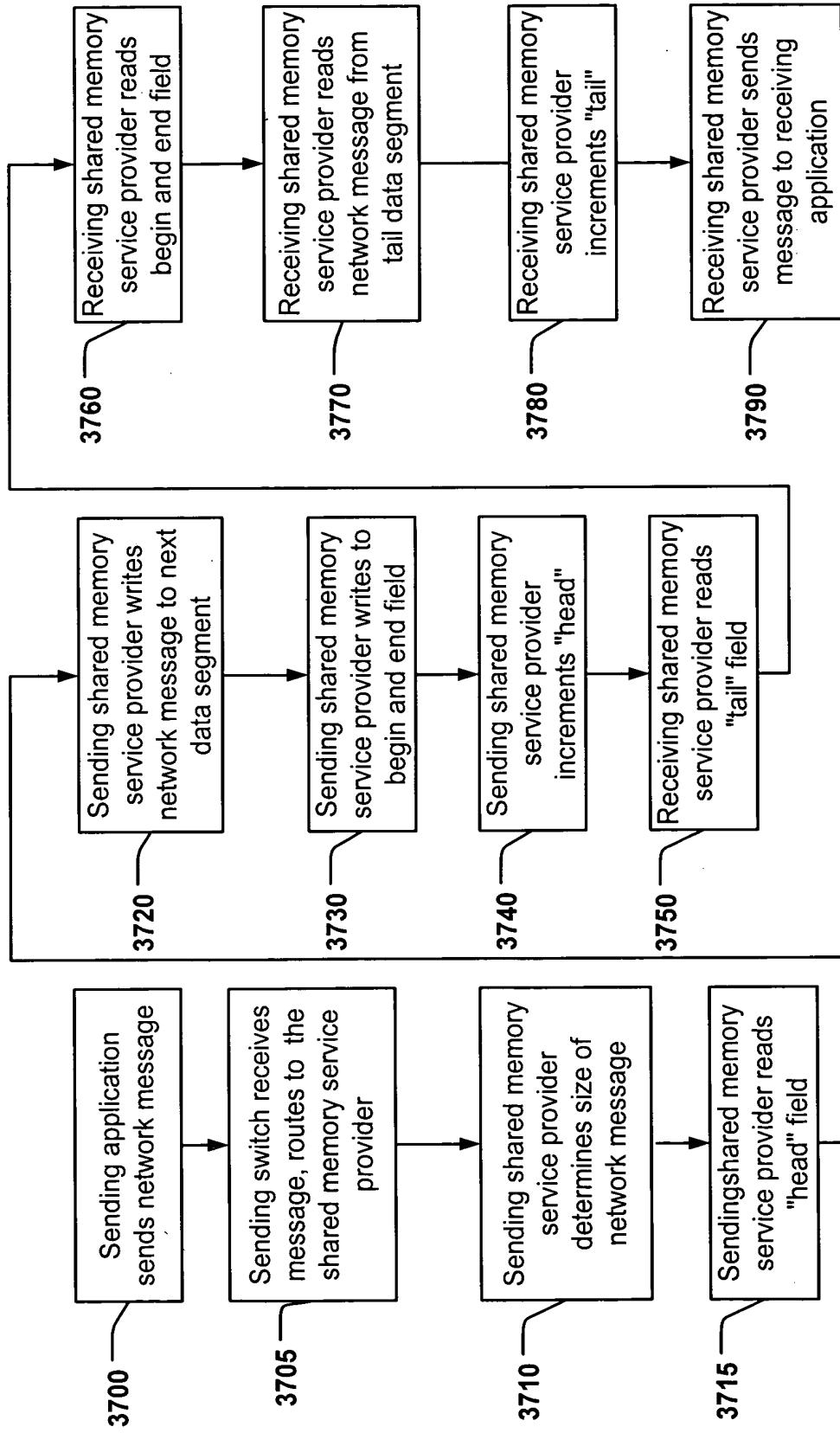


Figure 37